

# CORONAVIRUS: DIAGNÓSTICO Y TERAPIA EN HUMANOS

26 Resultados

Datos actualizados a 05/05/2020 [19:03:908]

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# NOVEL QUINOLINONE DERIVATIVE, PREPARATION METHOD THEREFOR, AND ANTIVIRAL COMPOSITION CONTAINING SAME AS ACTIVE INGREDIENT

Nº publicación WO2020080682A1 23/04/2020

Solicitantes KOREA RES INST CHEMICAL TECH [KR]

PASTEUR INSTITUT KOREA [KR]

KOREA INST ORIENTAL MEDICINE [KR]

Resumen The present invention relates to a novel quinolinone derivative, a preparation method therefor, and an antiviral

composition containing same as an active ingredient. A novel quinolinone derivative provided in one aspect of the present invention exhibits an excellent inhibitory activity against a coronavirus infection, and thus can be effectively used as a pharmaceutical composition for preventing or treating a disease caused by a coronavirus infection, that is,

MERS.

#### ISOXAZOLE DERIVATIVES AND PREPARATION PROCESS THEREOF

Nº publicación WO2020040343A1 27/02/2020 Solicitantes IL YANG PHARM CO LTD [KR]

Resumen The present

The present invention relates to an isoxazole derivative compound of Formula (1) useful as a substance for treating respiratory viral infectious disease caused by coronavirus, in particular, Middle East respiratory syndrome-coronavirus (MERS-CoV); a pharmaceutically acceptable derivative thereof; a preparation process of the same; and a pharmaceutical composition for the treatment of coronavirus infection comprising the above comopund as an active ingredient.

공개독해 10-2020-0023034

CC<sub>50</sub>값

| No. 실시에 M.W. CC<sub>50</sub> |
| 1 성시에 10 467.91 50.71 |
| 2 실시에 11 467.91 46.87 |
| 3 성시에 16 417.90 | 4 실시에 17 417.90 45.56 |
| 5 성시에 18 47.91 47.90 45.56 |

Æ 3

No.	실시예	M.W.	EC <sub>50</sub>	CC <sub>50</sub>	SI (CC50/EC50)
1	실시예 10	467.91	17.50	50.71	2.89
2	실시에 11	467,91	22.26	46.87	2.10
3	실시에 16	417.90	1.15	-	
4	실시예 17	417.90	1215	45.56	0.037
5	실시예 18	456.77	67.68	-	

산업상 이용가능

본 변명은 코모나바이러스에 대해 강력한 함바이러스 활성을 갖는 선구의 이속사를 응도해 화함을, 이들 화합을 의 제조방법 및 이를 화합물을 유효정보으로 포함하는 조정봉을 제공하여, 코모나바이러스 감염, 독히 중봉호훈 기술후군 코로나바이러스(MESS-CoV) 감염으로 인한 바이러스성 호흡기 결환의 예방 및 치료를 위한 함바이러스 제품 개발한 수 있다.

.5E 19].1

						Concentra	tion (uM) [1	MERS-COV)		
	정치해	MISV.	Historia	Cont.	100	50	25	12.5	6.25	3.13
3	28/124 10	497,91	17.50							
ş	1876/00 11	467.91	22.26							
3	244 sr	417/86	\$215							

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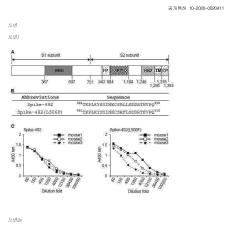
#### MONOCLONAL ANTIBODY AGAINST S PROTEIN OF MERS-CORONAVIRUS, AND USE OF SAME

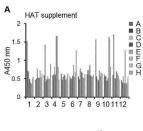
Nº publicación WO2020036403A1 20/02/2020

Solicitantes INDUSTRY ACADEMIC COOPERATION FOUNDATION HALLYM UNIV [KR]

Resumen

The present invention relates to a monoclonal antibody capable of specifically recognizing a spike protein of Middle East respiratory syndrome coronavirus (MERS-CoV) or a portion of the protein, or a functional fragment of the monoclonal antibody; and to a use of same, wherein the monoclonal antibody or a functional fragment thereof is characterized by comprising any one polypeptide sequence selected from the group consisting of the following polypeptide sequences, and wherein the monoclonal antibody consists of a heavy chain comprising a CDR1 region represented by SEQ ID NO: 2, and a CDR3 region represented by SEQ ID NO: 3, and a light chain comprising a CDR1 region represented by SEQ ID NO: 5, and a CDR3 region represented by SEQ ID NO: 5, and a CDR3 region represented by SEQ ID NO: 5, and a CDR3 region represented by SEQ ID NO: 6.





HBD2human beta-defensin 2 A composition for preventing or treating MERS-CoV virus comprising HBD2 human beta-defensin 2 or an fusion protein comprising epitope protein of MERS-CoV virus and the HBD2

Nº publicación KR20190134578A 04/12/2019

Solicitantes NAT UNIV CHONBUK IND COOP FOUND [KR]

Resumen The present invention relates to a compositi

The present invention relates to a composition for preventing or treating MERS-coronavirus comprising human beta-defensin 2 (HBD2) or epitope protein of MERS virus fused with a gene. In other words, HBD2 has effects of antiviral activity, innate immunity enhancement, and immunity enhancement.

New coronavirus vaccine based on chimpanzee adenovirus type 68 and MERS-CoV full length membrane protein

Nº publicación CN110616198A 27/12/2019

Solicitantes UNIV TSINGHUA

INST PASTEUR SHANGHAI CAS

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Resumen

The present invention discloses a new c oronavirus vaccine based on chimpanzee adenovirus type 68 and MERS-CoV full le ngth membrane protein. The recombinant adenovirus is obtained by transfecting an adenovirus packaging cell with a rec ombinant plasmid and then performing cell culture; the recombinant plasmid is obtained by inserting a specific DNA molecule into a delta-E1 region of a chim panzee adenovirus vector AdC68; the specific DNA molecule has a full-length MERS-CoV Spike protein encoding gene; and the adenovirus packaging cell has an a denovirus E1 gene. The present invention also protects the recombinant adenovirus expressing the full-length MERS-CoV Spike protein; and a starting strain of the recombinant adenovirus is chimpanzee adenovirus type 68 or non-replicating chimpanzee adenovirus type 68. The developed vaccine against the new coronavirus MERS-CoV has important theoretical guidance value and broad application prospects, and provides a possibility for radical cure of MiddleEast respirator y syndrome.



#### Human Antibodies to Middle East Respiratory Syndrome - Coronavirus Spike Protein

Nº publicación US2019351049A1 21/11/2019 **REGENERON PHARMA [US]** Solicitantes

Resumen

The present invention provides monoclonal antibodies that bind to the Middle East Respiratory Syndrome—Coronavirus (MERS-CoV) spike protein, and methods of use. In various embodiments of the invention, the antibodies are fully human antibodies that bind to MERS-CoV spike protein. In some embodiments, the antibodies of the invention are useful for inhibiting or neutralizing MERS-CoV activity, thus providing a means of treating or preventing MERS infection in humans. In some embodiments, the invention provides for a combination of one or more antibodies that bind to the MERS-CoV spike protein for use in treating MERS infection. In certain embodiments, the one or more antibodies bind to distinct non-competing epitopes comprised in the receptor binding domain of the MERS-CoV spike protein.

Patent Application Publication Nov. 30, 2017 Sheet 1 of 14 US 2017/0340728 A1

Sample ID	BLISA Blading	ELISA Blocking	% Neutralization (.025 µg/ml)	Neutralization ICSO (M)	O (M	t% (min)
НВУКОВНОБ	2.676	99.7	9566	1.328E-10	1.728-09	11.1
HBYX11HD4	2,623	666	9966	1.4925-10	3.285-10	170
HBVX11502	2.420	97.8	98%	2.108E-10	2.051-09	13.5
HBVZ10E10	2.537	8008	9,86	4.636E-10	2.776-09	10.4
HBVYOSFOR	2.044	566	9,86	3.3655-10	1,705-00	17.3
10020200	2.515	92.7	97%	2,2125-10	2,726-09	9.5
HBVZ09826	2.751	100.2	%16	1.759E-10	60-353-09	7.4
HBV/101F08	2.182	99.0	97%	1.3775-10	2.565-10	0.96
HBVY10G22	2,587	100.1	92%	2,7375-10	3,736-09	7.7
HENYOHBOB	2.463	100.1	%96	6.8456-13	1.518-09	13,3
HEVY07D10	2,417	25.9	40%	1,026-09	60-366'5	29.5
HEVZCGA09	2782	100.1	91%	3.567E-10	5,935-10	67.8
HENZOSG04	2,675	866	%06	3,054E-10	4.778-10	2 115
HBVr06C07	2.508	6.06	89%	5.56E-10	3.945-10	2 115
нвугозно6	2.735	92.6	89%	4,253E-10	6.69E-10	2 115
HBVZ10006	2,363	98.7	4099	4.357E-10	4.72E-10	2 115
HBVZ04F10	2,756	96.3	83%	5.943E-10	7,78E-10	80.7
HBVX11E09	2.533	100.3	%5	3.587E-09	2.45E-10	\$ 315
есносилан	2.806	7.4	£		7.125-09	18.8
HB/Z05811	2.677	2.6	989-		2.97E-09	94.8
HBVMOZEOS	2.644	74.4	-10%		2.152-08	13.3
4BVZ04C07	2.405	14.8	40%	1.5345-09	22	2

#### MERS CORONAVIRUS VACCINE

Nº publicación US2019351048A1 21/11/2019

CUREVAC AG [DE] Solicitantes

Resumen

The present invention relates to mRNAs suitable for use as mRNA-based vaccines against infections with MERS coronaviruses. Additionally, the present invention relates to a composition comprising the mRNAs and the use of the mRNAs or the composition for the preparation of a pharmaceutical composition, especially a vaccine, e.g. for use in the prophylaxis or treatment of MERS coronavirus infections. The present invention further describes a method of treatment or prophylaxis of infections with MERS coronavirus using the mRNA sequences.

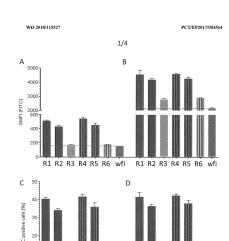


FIG. 1



#### An anti-MERS-CoV monoclonal antibody and use of the same

Nº publicación KR20190122283A 30/10/2019

Solicitantes INDUSTRY ACADEMIC COOPERATION FOUNDATION HALLYM UNIV [KR]

Resumen

The present invention relates to a monoclonal antibody that specifically recognizes a protein of MERS-coronavirus (MERS-CoV) or a portion of the protein, or a functional fragment thereof, and uses thereof, wherein the monoclonal antibody or functional fragment thereof comprises any one polypeptide sequence selected from the group consisting of the following polypeptide sequences: a heavy chain comprising a CDR1 region as depicted in SEQ ID NO: 1, a CDR2 region as depicted in SEQ ID NO: 2 and a CDR3 region as depicted in SEQ ID NO: 5 and a CDR3 region as depicted in SEQ ID NO: 5 and a CDR3 region as depicted in SEQ ID NO: 6.

WHOLE PROTEIN GENE OF MERS-CoV NUCLEOPROTEIN AND VACCINE COMPOSITION FOR PREVENTING INFECTION OF MERS-CoV COMPRISING THE SAME

Nº publicación KR20190119391A 22/10/2019

Solicitantes KOREA RES INST BIOSCIENCE & BIOTECHNOLOGY [KR]

Resumen The present invention relates to a full-length protein gene

The present invention relates to a full-length protein gene of Middle East respiratory syndrome coronavirus (MERS-CoV) nucleoprotein and a vaccine composition for preventing MERS-CoV infection comprising the same. The full-length protein gene antigen of MERS-CoV nucleoprotein represented by SEQ ID NO: 1 according to the present invention can be mass-produced in E. coli. In addition, the antigen-inoculated animal model shows the ability to

protect against MERS-CoV, and thus can be widely used for MERS-CoV prevention.

#### IMMUNOGENIC COMPOSITION FOR MERS CORONAVIRUS INFECTION

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Nº publicación US2019328865A1 31/10/2019

Solicitantes NEW YORK BLOOD CENTER INC [US]

Resumen Described herein are immunogenic compositions for preventing infection with Middle East respiratory syndrome

coronavirus (MERS-CoV) wherein the immunogenic compositions comprise at least a portion of the MERS-CoV S

protein and an immunopotentiator.



#### ANTIVIRAL COMPOSITIONS FOR THE TREATMENT OF INFECTIONS LINKED TO CORONAVIRUSES

Nº publicación US2019307722A1 10/10/2019

Solicitantes UNIV CLAUDE BERNARD LYON [FR]

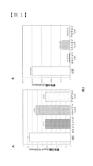
INSTITUTE NATIONAL DE LA SANTE ET DE LA RECH MEDICALE INSERM [FR]

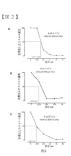
CENTRE NAT RECH SCIENT [FR]

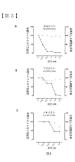
Resumen The present invention relates to a pharmaceutical or veterinary

composition for its use in preventing and/or treating a MERS-CoV (Middle-East Respiratory Syndrome) coronavirus infection, characterised in that it comprises, in a suitable pharmaceutical vehicle, at least one compound chosen from

apigenin and berberine.







#### A METHOD FOR DETECTING MERS CORONAVIRUS USING MERS CORONAVIRUS NUCLEOCAPSID FUSION PROTEIN

Nº publicación KR102019008B1 05/09/2019

Solicitantes KOREA CENTER FOR DISEASE CONTROL AND PREVENTION [KR]

KOREA RES INST BIOSCIENCE & BIOTECHNOLOGY [KR]

Resumen The present invention relates to a nucleocapsid fusion protein comprising N-terminal and C-terminal domain

fragments of the MERS coronavirus nucleocapsid protein, a method for detecting MERS coronavirus using a monoclonal antibody derived from the fusion protein and a detection kit to be used therefor. According to the present invention, the presence of MERS coronavirus-related antibody in the target sample can be effectively confirmed, and

the MERS coronavirus infection can be quickly diagnosed.

Application of MERS-CoV 3CLpro (Middle East respiratory syndrome coronavirus 3C-like protease) as deubiquitinating enzyme and interferon inhibitor

Nº publicación CN110257357A 20/09/2019

Solicitantes INST OF MILITARY MEDICINE ACADEMY OF MILITARY SCIENCES OF PLA

Resumen The invention relates to the field of b iomedicine, in particular to application of MERS-CoV 3CLpro (Middle East respi ratory syndrome coronavirus 3C-like pro tease) as a deubiquitinating enzyme and interferon inhibitor. The invention pr ovides a novel deubiquitinating enzyme and interferon inhibitor; the new under standing of the functionality of human coronavirus proteinase can be expanded; theoretical basis can be provided for the research on coronavirus and host

an tiviral natural immunization and the re search on antiviral drugs using viral p roteinase as a target.



#### TREATMENT OF MIDDLE EAST RESPIRATORY SYNDROME CORONAVIRUS

Nº publicación <u>US2019262432A1</u> 29/08/2019 Solicitantes ANSUN BIOPHARMA INC [US]

Resumen The present disclosure provide

The present disclosure provides novel compositions and methods for treating an infection by MERS-CoV. In particular, the present disclosure provides methods that entail administering agents having an anchoring domain that anchors the compound to the surface of a target cell, and a sialidase domain that can act extracellularly to inhibit infection of a target cell by MERS-CoV.

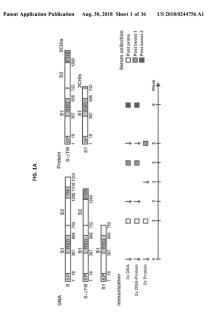
#### MIDDLE EAST RESPIRATORY SYNDROME CORONAVIRUS IMMUNOGENS, ANTIBODIES, AND THEIR USE

Nº publicación US2019256579A1 22/08/2019

Solicitantes US HEALTH [US]

Resumen

Methods of inducing an immune response in a subject to the Middle East respiratory syndrome coronavirus (MERS-CoV) are provided. In several embodiments, the immune response is a protective immune response that inhibits or prevents MERS-CoV infection in the subject. Recombinant MERS-CoV polypeptides and nucleic acid molecules encoding same are also provided. Additionally, neutralizing antibodies that specifically bind to MERS-CoV S protein and antigen binding fragments thereof are disclosed. The antibodies and antigen binding fragments are useful, for example, in methods of detecting MERS-CoV S protein in a sample or in a subject, as well as methods of preventing and treating a MERS-CoV infection in a subject.



#### nsP13 Compounds that inhibit MERS coronavirus helicase nsP13 and uses thereof

Nº publicación KR20190092776A 08/08/2019

Solicitantes UNIV KOOKMIN IND ACAD COOP FOUND [KR]

Resumen The present invention relates to a MERS coronavirus helicase nsP13 activity inhibitor comprising a naturally derived compound. An inhibitor of the present invention can be used to effectively and safely prevent and treat viral diseases

by efficiently inhibiting dsRNA unwinding activity and/or ATP hydrolytic activity of MERS coronavirus helicase nsP13.



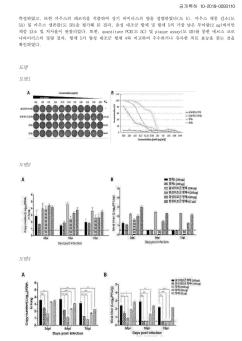
#### A binding molecules able to neutralize middle east respiratory-syndrome coronavirus

Nº publicación KR20190093114A 08/08/2019

Solicitantes CELLTRION INC [KR]

Resumen Th

The present invention relates to a binding molecule having neutralizing activities against Middle East respiratory syndrome-coronavirus (MERS-CoV). More particularly, the present invention relates to a binding molecule which has a superior ability to bind to the S protein of MERS-CoV and a neutralizing effect on MERS-CoV and is very useful in preventing, treating, or diagnosing MERS-CoV infection.



## A binding molecules able to neutralize middle east respiratory-syndrome coronavirus

Nº publicación KR20190093110A 08/08/2019

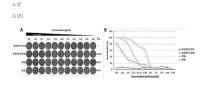
Solicitantes CELLTRION INC [KR]

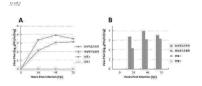
Resumen

The present invention relates to a binding molecule having neutralizing activities against Middle East respiratory syndrome-coronavirus (MERS-CoV). More particularly, the present invention relates to a binding molecule which has a superior ability to bind to the S protein of MERS-CoV and a neutralizing effect on MERS-CoV and is very useful in preventing, treating, or diagnosing MERS-CoV infection.

또한, 강설 7천세의 배우스 체한 적출 후 1022 열색하여 조직 내에서의 변화한 직접 관련하고야 하였다. 경자, 음성 대조군 함께 처리근라서는 기도 계약이 두어려고 있고, 음을세포된이 없어 유럽하여 있어 구선한 계절리막히 변화가 나타신 등에 취임하였다고 55 및 50, 등성 대조간 항체 이라고에서는 음성 대조간 항체 대군 행제 심하시는 않으나, 영송씨보의 유럽 및 두어세임 기도 직접을 확인하였다고 55 및 50, 단연, 항제

아들이, 지료 효금 평가를 위하여 살기 바이에스를 돌받해 접해서기고 이일 함께 5, 양성 대표는 행시 보존 설 대표는 함께로 약가 참으면 구시에요라는 차를 접임했지만 경우 부가는 지를 받은 없는 자우는 신청 등록 축합했고, 또한 마우스의 제공처을 처음하여 살기 바이에스의 일을 경찰했었다고 6), 마우스 제국 감소(도 6) 및 마우스 성공판(도 없)을 챙기에 본 경기, 음성 대표는 함께 및 함께 5이 가장 낮은 주의에만 교비에만 위한 감소 및 자식들이 설립되었다. 또한, quantizare (YKUS G) 및 place seasy(도 G)를 통한 해보고 교육 나바이에스의 경쟁 경기, 항제 5가 항성 대표는 함께 4개 제공하여 주수에가나 유사한 최고 효율을 갖는 것을 확인하였다.







#### A binding molecules able to neutralize middle east respiratory-syndrome coronavirus

Nº publicación KR20190093107A 08/08/2019

Solicitantes CELLTRION INC [KR]

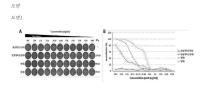
Solicitatiles CELLTRION INC INC

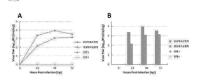
Resumen

The present invention relates to a binding molecule having neutralizing activities against Middle East respiratory syndrome-coronavirus (MERS-CoV). More particularly, the present invention relates to a binding molecule which has a superior ability to bind to the S protein of MERS-CoV and a neutralizing effect on MERS-CoV and is very useful in preventing, treating, or diagnosing MERS-CoV infection.

또한, 강점 7원에에 바구스 체한 책을 후 謎 점하여 조직 내에서의 변화한 직접 관한하고와 하였다. 전자, 충형 별조군 형제 최대전체는 기도 계약이 무어에게 있고, 경충성포동이 없이 숙임하여 있어 구성한 직접이라면 백화가 나타난 것을 확인적하면(도요 및 원) 약의 대표군 항체 기관관에서는 등성 대조는 함치 라고 해야 심하시는 않으나, 성충세포의 유럽 및 구위원인 기도 적약을 확인하였다는 또한 및 B. 앤턴, 형제 본 계약한 분세가는 차계관 전비 교육 기업적의 변화가 이 크게 나타난 것을 확인하였다는 또한 있다.

아슬리, 지료 호는 정기를 취하여 상기 마이미스를 통하여 감영시기고 역할 통제, 5 양설 대조는 행제 4 및 ' 성 대조한 방제를 꾸며 복합 구사이었다. 자형 업업업의 경기를 가루 가루스 계속 조건 목도, 마루스 전투 유명하였고, 또한 마우스의 제조의를 개출하여 상기 마이미스의 당을 정말하였다(도 8), 아우스 제중 감소( GL) 및 마우스 성문분(도 GD)를 경기해 본 경기, 충설 대조관 함께 및 함치 5의 가장 낮은 자연당인 때에게 제공 감소 및 지수에 전환경임자, 또는 Remaitizer (DEC, BL) 및 되었으면 SEUE(SE)를 통한 매로스 크 나타이미스의 정말 전기, 함께 5가 당성 대조근 함께 4와 비교하여 우수하기나 숙사한 제도 효상을 갖는 것; 환성하였다고





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## Quadruple fluorescence quantitative detection kit for simultaneously detecting four human coronaviruses

Nº publicación CN110144422A 20/08/2019

Solicitantes WUXI CUSTOMS DISTR PEOPLES REPUBLIC OF CHINA

INST FOR VIRAL DISEASE CONTROL AND PREVENTION CHINESE CENTER FOR DISEASE CONTROL AND

PREVENTION

Resumen

The present invention relates to a quad ruple fluorescence quantitative detecti on kit for simultaneously detecting four human coronaviruses, and belongs to the technical field of human coronavirus detection. The human coronaviruses are specifically MERS-CoV/HCoV-NL63/HCoV-O C43/HCoV-HKUI; the detection kit specifically comprises four groups of specific primer pairs and probes, a positive quality control product and a negative quality control product; each group of the specific primer pairs and probes all comprises a pair of specific primers and a probe sequence; the positive quality control product is specifically a artificially synthetic target sequence; and the negative quality control product is deionized water or sterile water. The kit can simultaneously detect the four human coronaviruses by a single tube, is strong in detection specificity, high in detection sensitivity and fast in detection time, and avoids problems that one-by-one detection is long in time-consuming, high in detection cost, easy for cross-contamination, etc. No similar related product is reported on the market at present. The kit has broad a pplication prospects in disease detection, prevention and control ofinfectious diseases, clinical treatment guidance, etc.

BINDING MOLECULE HAVING NEUTRALIZING ACTIVITY AGAINST MIDDLE EAST RESPIRATORY SYNDROME-CORONAVIRUS

Nº publicación WO2019151632A1 08/08/2019

Solicitantes CELLTRION INC [KR]

Resumen The present invention

The present invention relates to a binding molecule having neutralizing activity against Middle East respiratory syndrome-coronavirus (MERS-CoV). More particularly, the present invention relates to a binding molecule having a superior ability to bind to the S protein of MERS-CoV and also having a neutralizing effect on MERS-CoV and is very useful in preventing, treating, or diagnosing MERS-CoV infection.



#### PRETREATMENT METHOD OF SPUTUM FOR DETECTING MIDDLE EAST RESPIRATORY SYNDROME CORONAVIRUS

Nº publicación KR20190078174A 04/07/2019

Solicitantes KOREA CENTER FOR DISEASE CONTROL AND PREVENTION [KR]

BIONOTE INC [KR]

KOREA UNIV RESEARCH AND BUSINESS FOUNDATION SEJONG CAMPUS [KR]

Resumen The present invention relates to a method for pretreatment of sputum for detecting Middle East respiratory syndrome

coronavirus (MERS-CoV). Specifically, when a reducing agent and a neutralizing agent are sequentially pretreated in sputum, MERS-CoV in the sputum can be detected quickly and accurately by eliminating mucus without damaging

the antigen of the virus included in the sputum, which thus can be usefully used to detect MERS-CoV.

#### ANTIVIRAL COMPOSITIONS FOR THE TREATMENT OF INFECTIONS LINKED TO CORONAVIRUSES

Nº publicación CN110035767A 19/07/2019

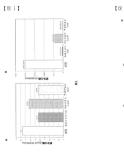
Solicitantes UNIV CLAUDE BERNARD LYON

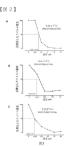
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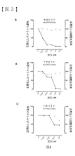
Resumen The invention relates to a pharmaceutic al or veterinary

composition for the us e thereof in the prevention and/or trea tment of an infection by the MERS-CoV ( Middle-East Respiratory Syndrome Corona virus), characterised in that it compri ses, in a suitable pharmaceutical vehic le, at least one

compound selected from apigenin and berberine.







HBD2human beta-defensin 2 A composition for preventing or treating MERS-CoV virus comprising HBD2 human beta-defensin 2 or an fusion protein comprising epitope protein of MERS-CoV virus and the HBD2L

Nº publicación KR20190070629A 21/06/2019

Solicitantes NAT UNIV CHONBUK IND COOP FOUND [KR]

Resumen The present invention relates to a composition for preventing or treating MERS-coronavirus comprising human

beta-defensin 2 (HBD2) or epitope protein of MERS virus fused with a gene. In other words, HBD2 has effects of

antiviral activity, innate immunity enhancement, and immunity enhancement.



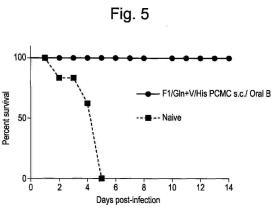
#### Pharmaceutical compositions and associated kits and uses

Nº publicación <u>GB2573649A</u> 13/11/2019 Solicitantes SECR DEFENCE [GB]

PROXIMA CONCEPTS LTD [GB]
THE UNIV OF STRATHCLYDE [GB]

Resumen

A vaccine comprises a first primer formulation comprising a bioactive component, microcrystal excipient and solubility modifier; and a second booster formulation comprising a bioactive component, amphiphile and an oil-based excipient; wherein the first formulation and second formulation are sequentially administered to the animal via a parenteral route and an oral route respectively. Preferably, the microcrystal comprises an amino acid (preferably glutamine or histidine) and preferably the solubility modifier comprises calcium phosphate, whilst the amphiphile is phosphatidylcholine or pegylated straight-chain hydrocarbons. Vaccine kits to prevent plague (comprising Yersinia pestis F1 and V proteins) and to prevent Middle East Respiratory syndrome (comprising MERS coronavirus receptor binding domain protein, RBD) are disclosed.



#### IMMUNOGENIC COMPOSITION FOR MERS CORONAVIRUS INFECTION

Nº publicación EP3541419A1 25/09/2019

Solicitantes NEW YORK BLOOD CENTER INC [US]

Resumen

Described herein are immunogenic compositions for preventing infection with Middle East respiratory syndrome coronavirus (MERS-CoV) wherein the immunogenic compositions comprise at least a portion of the MERS-CoV S protein and an immunopotentiator.

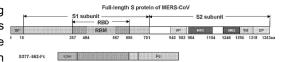


FIG. 1