Recombinant CCHFV Gn Protein, His-tagged

Cat. No. CRI-129 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant CCHFV virus Gn protein, expressed in mammalian HEK293 cells. The protein has had the transmembrane region deleted, and replaced with a 6xHis tag. The expressed protein is a highly purified 25-30 kDa glycoprotein. This protein is available for potential immunoassay development and for vaccine research and development.
Tag	His
Background	Recombinant Crimean Congo Hemorraghic Fever Virus glycoprotein N, incorporating a C-terminal 6xHis tag expressed in mammalian HEK293 cells. The protein consists of amino acids 520-690 (amino acid positions correspond to full length glycoprotein precursor of the M segment of CCHFV). Crimean Congo hemorrhagic fever (CCHF) virus is a tick-borne enveloped single stranded RNA virus that belongs to the genus Nairovirus and a member of the Bunyaviridae family. CCHF virus causes a hemorrhagic disease in humans with up to 80% case fatality. Although the virus has only caused sporadic disease in the past, the expansion of the range of its vector, the Hyalomma tick, is causing increasing concern that case numbers will continue to rise. Since CCHF was first described in Crimea in 1944, sporadic outbreaks have occurred globally. In 2015, CCHFV was identified by the WHO as an emerging virus which is likely to cause a severe epidemic and which may present a public health emergency. Zoonotic transmission from host animals is the primary route of infection, with concerns this may increase in the next 10-20 years as the timing of religious festivals

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	change. The virus may also be spread effectively by human to human contact, especially in hospital settings. There are also concerns that it may be used as a bioterrorism agent, with evidence that work on this was carried out both in the USSR and in Iraq. Research into diagnosis of the illness, and also into vaccine development is increasing. The CCHF virus Gn protein is a potential target for vaccine development, as studies have shown that neutralising antibodies may be raised against this protein. Studies on the Gn protein have shown that correct glycosylation is important for for the function of the protein.
Purity	>95% pure by SDS-PAGE
Sequence Strain	IbAr10200
Formulation	20mM Tris-HCl.110mM sodium chloride, pH7.8
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Storage	Short Term Storage: +2 centigrade to +8 centigrade Long Term Storage: -80 centigrade
Concentration	0.774 mg/mL
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Recombinant
ClassID 1	Infectious Disease

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GENE INFORMATION

Synonyms	Crimean-Congo Hemorrhagic Fever Virus Gn

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