

Recombinant Crimean-Congo Hemorrhagic Fever Virus Nucleoprotein, His-tagged

Cat. No. CRI-130 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant CCHF virus Nucleoprotein, expressed in mammalian HEK293 cells. The protein is full length CCHFV Nucleoprotein with an N-terminal His-tag incorporated. The expressed protein is a highly purified 55 kDa glycoprotein. This protein is available for potential immunoassay development and for vaccine research.

Tag

His

Background

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 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 Nucleoprotein is a potential target for vaccine development, although efficacy has not

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yet been demonstrated. CCHF virus Nucleoprotein consists of a large, globular domain, plus a protrusion that contains a conserved caspase-3 cleavage site. The globular region is responsible for RNA binding, while the role of the caspase-3 cleavage site is currently unclear.

Purity	>95% by SDS-PAGE
Formulation	50mM HEPES, 175mM NaCl, 20% (v/v) glycerol, pH 7.3
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	0.84 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

GENE INFORMATION

Synonyms Crimean-Congo Hemorrhagic Fever Virus Nucleoprotein

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