

Recombinant Oropouche Virus Gc Protein, hFc-tagged

Cat. No. ORO-525 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Oropouche virus Gc protein was expressed in mammalian HEK293 cells. The transmembrane region of the protein has been replaced with human IgG1 Fc, via a glycine-serine linker. The purified protein is approximately 140kD on analysis by reducing SDS-PAGE. We also offer this protein with a mouse Fc tag for customers for whom the human Fc tag may interfere in their assays.

Tag

Fc

Background

Oropouche virus (OROV) is an RNA virus that belongs to the family Bunyaviridae. The virus can cause an acute febrile illness, with other symptoms similar to those reported for Dengue, Zika, and Chikungunya virus infection, including headache, myalgia, joint pain, nausea and vomiting. In some cases, OROV can cause a type of viral meningitis.

In humans, OROV is transmitted by the biting midge *Culiseta paraensis*, an insect vector that lives in urban areas and is widely distributed in South America. Since the virus was first isolated in 1955, OROV has caused 30 large scale epidemics in the Amazon region infecting at least 500,000 people. The incidence of Oropouche fever has now become widespread in Latin American countries where *C. paraensis* is present.

Differential diagnosis of Oropouche virus infection from infection with Dengue, Zika or Chikungunya is recognised to be important, but there are few diagnostic assays available.

Oropouche virus Gc protein is a type I integral transmembrane protein, which is further modified by N-linked glycosylation. Together with Gn protein it forms spikes on

 Tel: 1-631-559-9269 1-516-512-3133

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 45-1 Ramsey Road, Shirley, NY 11967, USA

the virus particle and is essential for viral attachment and cell fusion. It has been described that for certain bunyaviruses, Gn and Gc are targeted by neutralizing antibodies

Sequence Strain	BeH759040(GenBank accession number AJT39474.1)
Formulation	20mM HEPES pH7.0,300mM NaCl,0.25% Triton X-100
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	0.26 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 Oropouche Virus Gc

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