

Recombinant Oropouche Virus Nucleoprotein, hFc-tagged

Cat. No. ORO-529 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Oropouche virus Nucleoprotein is a 26 kDa protein prepared by expression in *E. coli*, and purified to >95% by His-tag affinity chromatography and ion exchange chromatography. There are currently no commercially available diagnostic immunoassays for OROV infection. This highly purified antigen has been expressed and produced in *E. coli* BL21 cells. OROV Nucleoprotein has been used in research studies to detect virus specific IgM and IgG antibodies in patient sera, supporting the use of this protein as a suitable target for immunoassay development.

Tag

Fc

Background

Oropouche virus (OROV) is a member of the Bunyavirus family, that causes episodic outbreaks of a debilitating febrile illness in Central and South America. Symptoms include sudden onset of high fever, headache, myalgia, joint pain and vomiting. It has been estimated that it may have caused more than 500,000 infections since its discovery in 1955, with the great majority occurring within the Amazon basin. The largest outbreak was in 1980 in the city of Belem, when there were more than 100,000 cases. More recently the first outbreak in the Cusco region of Peru was reported by the WHO.

OROV is transmitted by *C. paraensis* midges, a vector that can be found stretching from the northern half of Argentina to the mid-U.S. In laboratory conditions the virus has been found in other biting insects, including mosquitoes, but this hasn't been seen in the wild. It seems clear that there will be increased contact between humans and the vector over the coming years, due both to climate change and habitat destruction.

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Given the similarity of the symptoms, and geographical area, of OROV infection to infections with Chikungunya, Dengue, Yellow Fever and Zika viruses the WHO have recommended that OROV infection is included in the differential diagnosis with these common arboviral diseases.

Purity	>95% by SDS-PAGE
Sequence Strain	TRVL9760
Formulation	15mM Tris-HCl, 225mM NaCl, 20%(v/v) glycerol, pH 7.5
Freezing	Can be frozen and thawed, but avoid excessive freeze/thaw cycles.
Storage	Short Term Storage: +2 centigrade to +8 centigrade Long Term Storage: -80 centigrade
Concentration	0.35 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 Nucleoprotein

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