

Recombinant YFV Envelope Protein, 285-679, C-6×His tagged

Cat. No. E-03Y Lot. No. (See product label)

SPECIFICATION

Product Overview	Yellow Fever virus Envelope produced in Sf21 insect cells and purified from culture supernatant of recombinant baculovirus infected cells.
Species	YFV
Source	Insect cells
ProteinLength	285-679
Description	Yellow fever is an acute hemorrhagic disease caused by the Yellow Fever virus (YFV), which is a member of the Flaviviridae family of viruses. Clinical symptoms of YFV infection include fever, muscle pain, nausea and vomiting. In a small percentage of patients, the liver and kidneys are affected leading to jaundice, and in some cases death. Yellow Ffever virus is endemic in tropical areas of Africa and Central/South America where the vector is widespread. In the virus's sylvatic cycle, it is transmitted to non-human primates via mosquitoes of the Haemagogus and Sabethes genera, with occasional outbreaks of Yellow Fever in individuals working in forest areas. In the virus's urban cycle, the Aedes aegypti mosquito is responsible for the transmission of Yellow Fever virus to humans in more populated areas. In the late 1930's a safe and effective attenuated vaccine was developed against the YFV, which confers long-term immunity (Norrby, E). The virulent wild-type Asibi strain of YFV was used to develop the YFV 17D vaccine, which is effective in immunising individuals at risk of YFV infection (WHO). Diagnosis of yellow fever is complicated by the fact that early symptoms of the infection can be confused with other haemorrhagic diseases

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including Dengue. Differential diagnosis is therefore an important consideration in areas where other flaviviruses such as Dengue and Zika co-circulate.

Form	liquid
Molecular Mass	Expected Molecular Weight: 45 kDa Observed Molecular Weight: 45 kDa
Storage	Short Term Storage: -80 centigrade Long Term Storage: -80 centigrade Freezing: Can be frozen, but avoid multiple freeze-thaw cycles.
Concentration	0.94 mg/ml
Storage Buffer	DPBS
References	1. Norrby E (2007). Yellow fever and Max Theiler: the only Nobel Prize for a virus vaccine. J Exp Med. 204 (12):2779

GENE INFORMATION

Gene Name	POLY polyprotein [Yellow fever virus]
Official Symbol	POLY
Synonyms	POLY; polyprotein; polyprotein; core protein C; anchored core protein C; M protein precursor; matrix protein M; envelope protein; non-structural protein NS1; non-structural protein NS2a; non-structural protein NS2b; non-structural protein NS3; non-structural protein NS4a; 2K protein; non-structural protein NS4b; RNA-dependent RNA polymerase; Envelope; E; env

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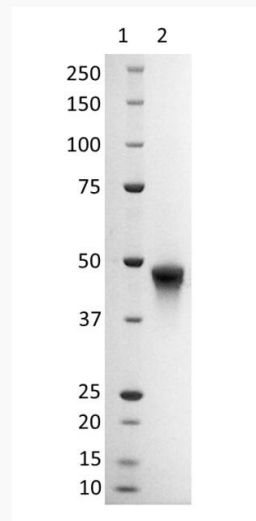


Gene ID 1502173

Protein Refseq NP_041726

UniProt ID P03314

SDS-PAGE



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