

Active Recombinant Dengue virus DENV_gp1 Protein, His-tagged(C-ter)

Cat. No. DENV_gp1-273D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dengue virus DENV_gp1 Protein with His tag (C-ter) was expressed in HEK293T.
Species	DENV
Source	HEK293
Description	Dengue virus NS1 protein is a nonstructural protein which could be secreted and have been developed as diagnostic biomarker for early detection. There are several forms of NS1 including monomer, dimer, and hexamer during infection. Dimeric NS1 can be anchored to cell membranes with glycosyl-phosphatidylinositol (GPI). Hexameric NS1 can be secreted and detected in patients' blood samples (up to 50 µg/mL) or infected cell supernatants (various from ng/mL to µg/mL depend on serotypes and strains). Studies have shown that NS1 could interfere complement activity and prothrombin activation. In addition, NS1 could elicit antibodies which cross-react with host antigens including coagulation factors and molecules expressed in endothelial cells and platelets through molecular mimic.
Form	Powder
Bio-activity	Dengue virus NS1 protein; Dengue virus nonstructural glycoprotein NS1 protein
AA Sequence	MDSGCVVSWKNKELKCGSGIFITDNVHTWTEQYKFQPESPSKLASAIQKAHEEGIC GIRSVTRLENLMWKQITPELNHILSENEVKLTIMTGDIKGIMQAGKRSLRPQPTELKYS

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WKTWGKAKMLSTESHNQTFIDGPETAECPTNRAWNSLEVEDYGFGVFTTNIWLK
LKEKQDVFCDSKLMSAAIKDNRAVHADMGYWIESALNDTWKIEKASFIEVKNCHWP
KSHTLWSNGVLESEMIIPKNLAGPVSQHNYPGYHTQITGPWHLGKLEMDFDG
TTVVVTEDCGNRGPRLRTTTASGKLITEWCCRSCTLPPLRYRGEDGCWYGMEIRPL
KEKEENLVNSLVTA

Endotoxin	Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.
Purity	> 95% (by SDS-PAGE)
Applications	SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	PBS (pH 7.4)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely. DO NOT vortex. If a further dilution is needed, dilute reconstituted protein with carrier protein (0.1% BSA or 5% HSA or 10% FBS) containing PBS or medium is recommended.

GENE INFORMATION

Gene Name POLY polyprotein [Dengue virus 2]

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Official Symbol	POLY
Synonyms	POLY; polyprotein; polyprotein; anchored capsid protein ancC; capsid protein C; membrane glycoprotein precursor prM; membrane glycoprotein M; envelope protein E; nonstructural protein NS1; nonstructural protein NS2A; nonstructural protein NS2B; nonstructural protein NS3; nonstructural protein NS4A; protein 2K; nonstructural protein NS4B; RNA-dependent RNA polymerase NS5; protein pr; contains structural proteins, C-prM/M-E and non-structural proteins, NS1-NS2A/B-NS3-NS4A/B-NS5; Dengue virus nonstructural protein 1; DENV_gp1
Gene ID	1494449
Protein Refseq	NP_056776
UniProt ID	O09234