Recombinant Human Enterovirus 71 VP0 Protein (His & GST Tag)

Catalog Number:PKSV030209

Note: Centrifuge before opening to ensure complete recovery of vial contents.

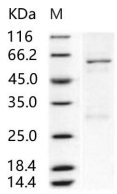
Description

Synonyms	VP0 Protein;EV71;VP4-VP2 Protein;EV71
Species	EV71
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Gln 323
Accession	Q66478-1
Calculated Molecular Weight	63.0 kDa
Tag	N-His-GST

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 100mM NaCl, 2mM GSH, 0.5mM PMSF, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Human enterovirus 71 genome polyprotein is a member of the picornaviruses polyprotein family. It contains twopeptidase C3 domains, oneRdRp catalytic domain, oneSF3 helicase domain. Genome polyprotein is cleaved into the following 12 chains: Protein VP (VP4-VP2), Protein VP4 (P1A), Protein VP2 (P1B), Protein VP3 (P1C), Protein VP1 (P1D), Picornain 2A (P2A), Protein 2B (P2B), Protein 2C (P2C), Protein 3A (P3A), Protein 3B (P3B), Picornain 3C (Protease 3C) and RNA-directed RNA polymerase 3D-POL (P3D-POL). VP precursor is a component of immature procapsids. Capsid proteins VP1, VP2, VP3 and VP4 form a closed capsid enclosing the viral positive strand RNA genome. VP4 lies on the inner surface of the protein shell formed by VP1, VP2 and VP3. All the three latter proteins contain a beta-sheet structure called beta-barrel jelly roll. Together they form an icosahedral capsid composed of 6 copies of each VP1, VP2, and VP3, with a diameter of approximately 3 Angstroms. VP1 is situated at the 12 fivefold axes, whereas VP2 and VP3

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are located at the quasi-sixfold axes.

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