

Enterovirus 71 VP0 Protein (sf9, His-GST)

Cat. No.:	HY-P76389
Synonyms:	Human Enterovirus 71 VP0 Protein (His-GST)
Species:	Virus
Source:	Sf9 insect cells
Accession:	Q66478 (M1-Q323)
Gene ID:	/
Molecular Weight:	Approximately 58 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris, 100 mM NaCl, 2 mM GSH, 0.5 mM PMSF, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The Enterovirus 71 VP0 protein contributes to the formation of an icosahedral capsid with pseudo T=3 symmetry, alongside capsid proteins VP2 and VP3. This capsid, measuring 300 Angstroms in diameter, comprises 60 copies of each capsid protein and encapsulates the viral positive strand RNA genome. Capsid protein VP1 primarily shapes the vertices of the capsid, and, in conjunction with VP2, engages with the host cell receptor SCARB2 to facilitate virion attachment to target host cells, leading to clathrin-dependent endocytosis. Following receptor binding, the capsid undergoes conformational changes, resulting in the externalization of the N-terminus of capsid protein VP1, which contains an amphipathic alpha-helix, and capsid protein VP4. Together, these components create a pore in the host membrane, enabling the translocation of the viral genome into the host cell cytoplasm.
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Caution: Product has not been fully validated for medical applications. For research use only.

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