

Active Recombinant Rotavirus VP4 Protein, His-tagged

Cat. No. VP4-01R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rotavirus VP4 Protein (247-479aa) with a His tag was expressed in E. coli.
Species	Rotavirus
Source	E.coli
ProteinLength	80-1388 a.a.
Description	Outer capsid protein VP4: Spike-forming protein that mediates virion attachment to the host epithelial cell receptors and plays a major role in cell penetration, determination of host range restriction and virulence. Rotavirus attachment and entry into the host cell probably involves multiple sequential contacts between the outer capsid proteins VP4 and VP7, and the cell receptors. It is subsequently lost, together with VP7, following virus entry into the host cell. Following entry into the host cell, low intracellular or intravesicular Ca ²⁺ concentration probably causes the calcium-stabilized VP7 trimers to dissociate from the virion. This step is probably necessary for the membrane-disrupting entry step and the release of VP4, which is locked onto the virion by VP7.
Bio-activity	VP4 an outer capsid proteins, induces neutralizing antibodies and is responsible for Rotavirus serotype specificity.
AA Sequence	AQVSEDIISKTS LWKEMQYNRDIIRFKFNNSIIKLGGLGYKWSEISFKAANYQYNYLR DGEQVTAHTTCSVNGVNNFSYNGGLLP THFSISRYEVIKENS YVYVDYWDDSQAFR

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NMVYVRSLAANLNSVKCSGGNYNFQMPVGAWPVMSSGGAVSLHFAGVTLSTQFTDF
VSLNSLRFRFSLTVEEPPFSILRTRVSGLYGLPASNPNSGHEYIEIAGRFSLSLVPSN
DDY

Purity > 90%

Storage 4 centigrade short term, -20 to -80 centigrade long term. Avoid repeat freeze-thaw cycles.

Storage Buffer Supplied in Tris/PBS-based buffer, with glycerol.

GENE INFORMATION

Gene Name VP4 outer capsid protein [Human rotavirus B]

Official Symbol VP4

Synonyms

VP4; outer capsid protein; tumor necrosis factor receptor superfamily member 3; lymphotoxin B receptor; lymphotoxin beta receptor (TNFR superfamily, member 3); tumor necrosis factor C receptor; tumor necrosis factor receptor 2-related protein; tumor necrosis factor receptor type III

Gene ID 15957179

Protein Refseq YP_008126845

UniProt ID Q6XD93

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