

VPS4A Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	Protein SKD2;VPS4A;Vacuolar protein sorting-associated protein 4A;VPS4;VPS4-1 (hVPS4)
Protein Construction:	1-437 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9UN37
Molecular Weight:	53.9 kDa (predicted)
AA Sequence:	MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCVQYLDRAEKLKDYL RSKEKHGKKPVKENQSEGKGSDDSEGDNPEKKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALKEAVIL PIKFPHLFTGK RTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSDLMSKWLGESEKLVKNLFELARQH KPSIIFIDEVDSL CGSRNENESEAARRIKTEFLVQM QGVGNNDGTLVLGATNIPWVLD SAI RRRFEKRIYIPLPE EAARAQMFRHLHGSTPHNLTDANIELARKTEGYSGADISIIVRDSLMQPVRKVQSATHFKKVCGPSRTNPSM MIDDLLTPCSPGDPGAMEMTWM DVP GD K LLEPVVCM S DMLRSLATTRPTVNADDLLKVKKFSEDFGQES

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Involved in late steps of the endosomal multivesicular bodies (MVB) pathway. Recognizes membrane-associated ESCRT-III assemblies and catalyzes their disassembly, possibly in combination with membrane fission. Redistributes the ESCRT-III components to the cytoplasm for further rounds of MVB sorting. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. Involved in cytokinesis: retained at the midbody by ZFYVE19/ANCHR and CHMP4C until abscission checkpoint signaling is terminated at late cytokinesis. It is then released following dephosphorylation of CHMP4C, leading to abscission. VPS4A/B are required for the exosomal release of SDCBP, CD63 and syndecan.; (Microbial infection) In conjunction with the ESCRT machinery also appears to function in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and enveloped virus budding (HIV-1 and other lentiviruses).

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