Recombinant Full Length Human VPS4A Protein, C-Flag-tagged

Cat. No. VPS4A-1245HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human VPS4A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a member of the AAA protein family (ATPases associated with diverse cellular activities), and is the homolog of the yeast Vps4 protein. In humans, two paralogs of the yeast protein have been identified. The former share a high degree of aa sequence similarity with each other, and also with yeast Vps4 and mouse Skd1 proteins. The mouse Skd1 (suppressor of K+ transport defect 1) has been shown to be really an yeast Vps4 ortholog. Functional studies indicate that both human paralogs associate with the endosomal compartments, and are involved in intracellular protein trafficking, similar to Vps4 protein in yeast. The gene encoding this paralog has been mapped to chromosome 16; the gene for the other resides on chromosome 18.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	48.7 kDa
AA Sequence	MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRA KCVQYLDRAEKL KDYLRSKEKHGKKPVKENQSEGKGSDSDSEGDNPEKKKLQEQL

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	MGAVVMEKPNIRWNDVAGLEGAKEALK EAVILPIKFPHLFTGKRTPWRGILLFGPPG TGKSYLAKAVATEANNSTFFSVSSSDLMSKWLGESEKLVK NLFELARQHKPSIIFIDE VDSLCGSRNENESEAARRIKTEFLVQMQGVGNNNDGTLVLGATNIPWVLDSA IRRR FEKRIYIPLPEEAARAQMFRLHLGSTPHNLTDANIHELARKTEGYSGADISIIVRDSLM QPVRKVQ SATHFKKVCGPSRTNPSMMIDDLLTPCSPGDPGAMEMTWMDVPGDKL LEPVVCMSDMLRSLATTRPTVNA DDLLKVKKFSEDFGQESTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Endocytosis
Full Length	Full L.

GENE INFORMATION

Gene Name	VPS4A vacuolar protein sorting 4 homolog A [Homo sapiens (human)]
Official Symbol	VPS4A
Synonyms	SKD1; SKD2; VPS4; SKD1A; CIMDAG; VPS4-1

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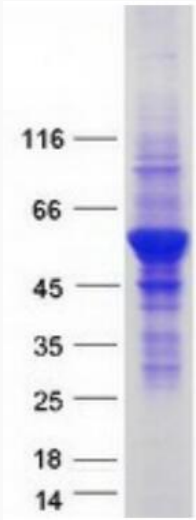
Gene ID	27183
mRNA Refseq	NM_013245.3
Protein Refseq	NP_037377.1
MIM	609982
UniProt ID	Q9UN37



Coomassie blue staining of purified VPS4A protein.

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