

Recombinant Human VPS4B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. VPS4B-5193H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VPS4B MS Standard C13 and N15-labeled recombinant protein (NP_004860) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Mouse Skd1 (suppressor of K ⁺ transport defect 1) has been shown to be a 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 18; the gene for the other resides on chromosome 16.
Molecular Mass	49.3 kDa
AA Sequence	MSSTSPNLQKAIDLASKAAQEDKAGNYEEALQLYQHAVQYFLHVVKYEAQGDKAKQ SIRAKCTEYLDRAEKLKEYLKNKEKKAQKPVKEGQPSPADEKGNDSGEGESDDPE KKKLQNQLQGAIVIERPNVKWSDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGI

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LLFGPPGTGKSYLAKAVATEANNSTFFSISSSDLVSKWLGESEKLVKNLFQLARENK
 PSIIFIDEIDSLCGSRSENESEAARRIKTEFLVQMQGVGVDNDGILVLGATNIPWVLDS
 AIRRRFEKRIYIPLPEPHARAAMFKLHLGTTQNSLTEADFRELGRKTDGYSGADISIIV
 RDALMQPVRKVQSATHFKKVRGPSRADPNHLVDDLLTPCSPGDPGAIENTWMDVP
 GDKLLEPVVMSDMLRSLSNTKPTVNEHDLLKLKKFTEDFGQEGTRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name VPS4B vacuolar protein sorting 4 homolog B [Homo sapiens (human)]

Official Symbol VPS4B

Synonyms VPS4B; vacuolar protein sorting 4 homolog B (S. cerevisiae); SKD1, suppressor of K⁺ transport defect 1, vacuolar protein sorting 4B (yeast); vacuolar protein sorting-associated protein 4B; SKD1B; VPS4 2; cell migration-inducing 1; vacuolar protein sorting 4B; suppressor of K⁺ transport defect 1; cell migration-inducing gene 1 protein; suppressor of K(+) transport growth defect 1; MIG1; SKD1; VPS4-2;

Gene ID 9525

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mRNA Refseq NM_004869

Protein Refseq NP_004860

MIM 609983

UniProt ID O75351

SDS-PAGE



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