

Recombinant Human SEPHS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SEPHS1-3356H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SEPHS1 MS Standard C13 and N15-labeled recombinant protein (NP_036379) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an enzyme that synthesizes selenophosphate from selenide and ATP. Selenophosphate is the selenium donor used to synthesize selenocysteine, which is co-translationally incorporated into selenoproteins at in-frame UGA codons.
Molecular Mass	42.9 kDa
AA Sequence	MSTRESFNPESEYELDKSFRLTRFTELKGTGCKVPQDVLQKLLESLQENHFQEDEQF LGAVMPRLGIGMDTCVIPLRHGGLSLVQTDDYIPIVDDPYMMGRIACANVLSDLA MGVTECDNMLMLLGVSNNKMTDRERDKVMPLIIQGFKDAEEAGTSVTGGQTVLNP WIVLGGVATTVCQPNEFIMPDNAVPGDVLVLTPLGTQVAVAVHQWLDIPEKWNKIK LVVTQEDVELAYQEAMMNMARLNRTAAGLMHTFNAHAATDITGFGILGHAQNLAKQ QRNEVSFVIHNLPLAKMAAVSKACGNMFGLMHGTCPETSGGLLICLPREQAARFC AEIKSPKYGEGHQAWIIGIVEKGNRTARIIDKPRIIEVAPQVATQNVNPTPGATSTRTR PLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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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	SEPHS1 selenophosphate synthetase 1 [Homo sapiens (human)]
Official Symbol	SEPHS1
Synonyms	SEPHS1; selenophosphate synthetase 1; selenide, water dikinase 1; SPS; SPS1; selenium donor protein 1; selenophosphate synthase 1; selenophosphate synthetase 1 +E9; selenophosphate synthetase 1 +E9a; selenophosphate synthetase 1 major; selenophosphate synthetase 1 delta E2; selenophosphate synthetase 1 delta E8; SELD; MGC4980;
Gene ID	22929
mRNA Refseq	NM_012247
Protein Refseq	NP_036379
MIM	600902
UniProt ID	P49903

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