Recombinant Mouse Sephs2 Protein, Myc/DDK-tagged

Cat. No. Sephs2-5765M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length selenophosphate synthetase 2 (Sephs2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes an enzyme that catalyzes the production of monoselenophosphate (MSP) from selenide and ATP. MSP is the selenium donor required for synthesis of selenocysteine (Sec), which is co-translationally incorporated into selenoproteins at in-frame UGA codons that normally signal translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, the Sec insertion sequence (SECIS) element, which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. This protein is itself a selenoprotein containing a Sec residue at its active site, suggesting the existence of an autoregulatory mechanism. It is preferentially expressed in tissues implicated in the synthesis of selenoproteins and in sites of blood cell development.
Molecular Mass	47.8 kDa
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.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Sephs2 selenophosphate synthetase 2 [Mus musculus (house mouse)]
Official Symbol	Sephs2
Synonyms	Sephs2; selenophosphate synthetase 2; S; Ysg; Sps2; Ysg3; selenide, water dikinase 2; selenium donor protein 2; selenophosphate synthase 2; the SelD gene product; EC 2.7.9.3
Gene ID	20768
mRNA Refseq	NM_009266
Protein Refseq	NP_033292
UniProt ID	P97364

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