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Product datasheet for TP727210

Selenophosphate synthetase 1 (SEPHS1) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Selenophosphate Synthase 1/SEPHS1 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Ser392
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 25mM Tris-HCl, 100mM glycine, 10% Glycerol, pH 7.3.
Note:	Recombinant Human Selenophosphate synthase is produced by our Mammalian expression system and the target gene encoding Met1-Ser392 is expressed with a 6His tag at the C-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	22929
UniProt ID:	P49903
Synonyms:	Selenide; water dikinase 1;Selenium donor protein 1;Selenophosphate synthase 1;SEPHS1;SELD; SPS; SPS1
Summary:	Selenophosphate synthetase 1 (SEPHS1) belongs to the selenophosphate synthase 1 family, Class II subfamily. It has four different isoforms by alternative splicing. Isoform 1 and isoform 2 are gradually expressed during the cell cycle until G2/M phase and then decreased, which Isoform 3 is gradually expressed during the cell cycle until S phase and then decreased. SEPHS1 can be activated by phosphate ions and by potassium ions. It can synthesize 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.
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Metabolic pathways, Selenoamino acid metabolism

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