

Recombinant Human SEPHS1 Protein (His Tag)

Catalog Number:PKSH033016



Note: Centrifuge before opening to ensure complete recovery of vial contents.

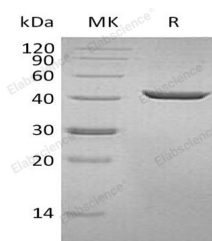
Description

Synonyms	Selenide;water dikinase 1;Selenium donor protein 1;Selenophosphate synthase 1;SEPHS1;SELD;SPS;SPS1
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Ser392
Accession	P49903
Calculated Molecular Weight	43.9 kDa
Observed molecular weight	42 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 25mM Tris-HCl, 100mM glycine, 10% Glycerol, pH 7.3.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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 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.

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