

Recombinant Human SEPHS1 Protein (His Tag)

Catalog No. PKSH033016

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

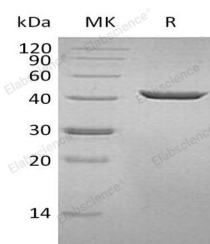
Description

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
Bioactivity	Not validated for activity

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 synthetases

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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.