



Recombinant Protein Technical Manual

Recombinant Human SEPHS1 Protein (His Tag)

RPES4160

Product Data:

Product SKU: RPES4160

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P49903

Protein Information:

Molecular Mass: 43.9 kDa

AP Molecular Mass: 42 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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, pH 7.3, 100mM glycine, 10% glycerol.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Selenide; water dikinase 1; Selenium donor protein 1; Selenophosphate synthase 1; SEPHS1; SELD; SPS; SPS1

Immunogen Information:

Sequence: Met 1-Ser392

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 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.