

Recombinant Human SEPHS1

Catalog No: Cl93

Description 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.

Source Human Cells

Alternative name Selenide; water dikinase 1;Selenium donor protein 1;Selenophosphate synthase 1;SEPHS1;SELD;

SPS; SPS1

Accession No. P49903

Formulation Supplied as a 0.2 µm filtered solution of 25mM Tris.HCl,pH7.3,100mM glycine,10% glycerol.

Quality Control Purity: Greater than 90% as determined by reducing SDS-PAGE.

Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Shipping The product is shipped on dry ice/polar packs.

Upon receipt, store it immediately at the temperature listed below.

Storage Store at < -20°C, stable for 6 months after receipt.

Please minimize freeze-thaw cycles.

Amino Acid Sequence MSTRESFNPESYELDKSFRLTRFTELKGTGCKVPQDVLQKLLESLQENHFQEDEQFLGAVMPRLGIGM DTCVIPLRHGGLSLVQTTDYIYPIVDDPYMMGRIACANVLSDLYAMGVTECDNMLMLLGVSNKMTDRER DKVMPLIIQGFKDAAEEAGTSVTGGQTVLNPWIVLGGVATTVCQPNEFIMPDNAVPGDVLVLTKPLGTQ VAVAVHQWLDIPEKWNKIKLVVTQEDVELAYQEAMMNMARLNRTAAGLMHTFNAHAATDITGFGILGH AQNLAKQQRNEVSFVIHNLPVLAKMAAVSKACGNMFGLMHGTCPETSGGLLICLPREQAARFCAEIKSP

KYGEGHQAWIIGIVEKGNRTARIIDKPRIIEVAPQVATQNVNPTPGATSVDHHHHHH

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 cotranslationally incorporated into selenoproteins at in-frame UGA codons.

SDS-Page



