

## 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.  |
| Stability:                            | 12 months from date of despatch   |
| Locus ID:                             | 22929   |
| UniProt ID:                           | <a href="#">P49903</a>  |
| 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. |



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