Recombinant Protein Technical Manual

Recombinant Human SELENOI/EPT1 Protein (GST Tag)

RPES3344

Product Data:

Product SKU: RPES3344

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9C0D9

Protein Information:

Molecular Mass:	32.3 kDa
AP Molecular Mass:	29 kDa
Tag:	N-GST
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 20mM TrisHCl, pH 8.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Ethanolaminephosphotransferase 1; hEPT1; Selenoprotein I; SelI; EPT1; KIAA1724; SELI

Immunogen Information:

Sequence: Met 1-Pro50

Background:

Ethanolaminephosphotransferase 1 (EPT1) is an enzyme that belongs to the CDP-Alcohol Phosphatidyltransferase Class-I Family. EPT1 is a Selenoprotein, which contains a Selenocysteine (Sec) residue at its active site. The Selenocysteine is encoded by the UGA codon that normally signals translation termination. The 3' UTR of Selenoprotein genes have a common stem-loop structure, the sec insertion sequence (SECIS), that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. EPT1 catalyzes Phosphatidylethanolamine biosynthesis from CDP-Ethanolamine. It plays a central role in the formation and maintenance of vesicular membranes. EPT1 is involved in the formation of Phosphatidylethanolamine via the 'Kennedy' pathway.