Recombinant Human SELENOI/EPT1 Protein (GST Tag)

Catalog Number: PKSH032407

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

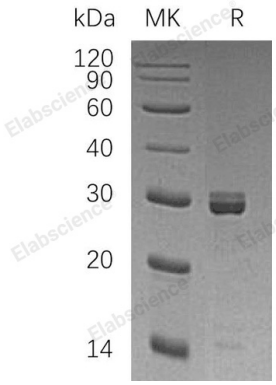
Description

Species	Human
Source	E.coli-derived Human SELENOI;EPT1 protein Met 1-Pro50, with an N-terminal GST
Mol_Mass	32.6 kDa
Accession	Q9C0D9
Bio-activity	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 20mM Tris-HCl, 150mM NaCl, 1mM EDTA, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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.