

Recombinant Human EPT1, GST-tagged

Cat. No. EPT1-102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ethanolaminephosphotransferase 1/EPT1 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Pro50) of Human EPT1 fused with a GST tag at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-50 a.a.
Description	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.
Form	Supplied as a 0.2 µM filtered solution of 20mM Tris-HCl, pH 8.0
AA Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKL TQSMAlIRYIADKHNMLGGCPKERAElSMLEGAVLDIRYGVSRlAYSKDF

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ETLKVDFLSKLPEML KMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLD
AFPKLVCFKKRIEAIQIDKYLKS SKYIAWPLQGWQATFGGGDHPPKSDLVPRGSPE
FHMAGYEYVSPEQLAGFDKYKYSVDTNPLSL YVMHPFWNTIVKVFTWLAP

Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at Please minimize freeze-thaw cycles.

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