

Recombinant Human glycolipid transfer protein domain containing 1, His-tagged

Cat. No. GLTPD1-607H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GLTPD1, 1-214aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-214 a.a.
Description	GLTPD1 mediates the intracellular transfer of ceramide-1-phosphate between organelle membranes and the cell membrane. This protein is required for normal structure of the Golgi stacks. GLTPD1 can bind phosphoceramides with a variety of aliphatic chains, but has a preference for lipids with saturated C16:0 or monounsaturated C18:1 aliphatic chains, and is inefficient with phosphoceramides containing lignoceryl (C24:0). It plays a role in the regulation of the cellular levels of ceramide-1-phosphate, and thereby contributes to the regulation of phospholipase PLA2G4A activity and the release of arachidonic acid. Recombinant human GLTPD1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 50% glycerol, 1mM DTT
Molecular Mass	26.8 kDa (237aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDDSETG FNLKVVLVSF KQCLDEKEEV

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LLDPYIASWK GLVRFLNSLG TIFSISKDV VSKLRIMERL RGGPQSEHYR
SLQAMVAHEL SNRLVDLERR SHHPESGCRT VLRLHRALHW LQLFLEGLRT
SPEDARTSAL CADSYNASLA AYHPWVVRRA VTVAFCTLPT REVFLEAMNV
GPPEQAVQML GEALPFIQRV YNVSQKLYAE HSLLDLP

Purity	>90 % by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	GLTPD1?glycolipid transfer protein domain containing 1 [?Homo sapiens(human)]
Official Symbol	GLTPD1
Synonyms	GLTPD1; CPTP; glycolipid transfer protein domain containing 1; ceramide-1-phosphate transfer protein; GLTP domain-containing protein 1; glycolipid transfer protein domain-containing protein 1
Gene ID	80772
mRNA Refseq	NM_001029885
Protein Refseq	NP_001025056
MIM	615467
UniProt ID	Q5TA50

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Chromosome Location	1p36.33
Function	ceramide 1-phosphate binding; ceramide 1-phosphate transporter activity; glycolipid binding

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