

GLTPD1, 1-214aa, Human, His tag, E.coli**Cat.NO.: TP02261**

3th Edition

Synonyms: Glycolipid transfer protein domain-containing protein 1, CPTP, MGC10334, glycolipid transfer protein domain containing 1

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 Weight: 26.8 kDa (237aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMDDSETGFNLKVVLVSFQCLDEKEEVLLDPYIASWKGLVRFLNSLGTIFSFI
SKDVVSKLRIMERLRGGPQSEHYRSLQAMVAHELNLVDLERRSHHPESGCRTVLRRLHRLHWLQLFLEGLRTS
PEDARTSALCADSYNASLAAYHPWVVRRAVTVAFCTLPTRVFLFLEAMNVGPPEQAVQMLGEALPFIQRVYNVSQK
LYAEHSLLDLP

Purity: > 95% by HPLC

Concentration: 0.25 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.