

Recombinant human GLTPD1 protein

Catalog Number: ATGP2830

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-214aa

UniProt No.

Q5TA50

NCBI Accession No.

NP_001025056

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

26.8 kDa (237aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 50% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

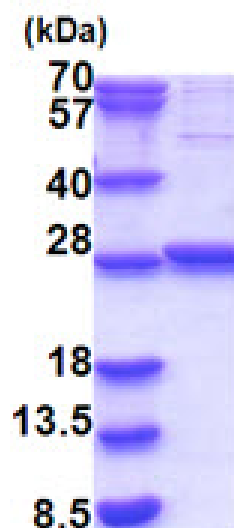
<MGSSHHHHH SSGLVPRGSH MGS>MDDSETG FNLKVVLVSF KQCLDEKEEV LLDPIASWK GLVRFNLNSLG
TIFSFISKDV VSKLRIMERL RGGPQSEHYR SLQAMVAHEL SNRLVDLERR SHHPESGCRT VLRLHRALHW LQLFLEGLRT
SPEDARTSAL CADSYNASLA AYHPWVVRRA VTVAFCTLPT REVFLEAMNV GPPEQAVQML GEALPFIQRV YNVSQKLYAE
HSLLDLP

General References

Simanshu D.K., et al. (2013) Nature 500:463-467.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)