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## Product Data Sheet

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Product Name: GLTPD1 Human  
 Cat. No.: GP23362  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ceramide-1-Phosphate Transfer Protein; GlycolipidTransfer Protein Domain-Containing Protein 1; Glycolipid Transfer ProteinDomain Containing 1; GLTP Domain-Containing Protein 1; GLTPD1; GLTPD1; Ceramide-1-phosphatetransfer protein; CPTP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMDSETG FNLKVVLVSF KQCLDEKEEV LLDPYIASWK GLVRFLNSLGTIFSISKDV VSKLRIMERL RGGPQSEHYR SLQAMVAHEL SNRLVDLERR SHHPESGCRT VLRLHRALHWLQLFLEGLRT SPEDARTSAL CADSYNASLA AYHPWVRRRAVTVAFCTLPT REVFLEAMNV GPPEQAVQML GEALPFIQRV YNVSQKLYAEHSLDLP.		
Formulation	GLTPD1 protein solution (0.25mg/ml) containing Phosphatebuffered saline (pH7.4), 50% glycerol and 1mM DTT.		

### Introduction

Glycolipid Transfer Protein Domain Containing 1 (GLTPD1) belongs to theGLTP family. GLTPD1 mediates the intracellular transfer of ceramide-1-phosphatebetween organelle membranes and the cell membrane. GLTPD1 is essential fornormal structure of the Golgi stacks. In addition, GLTPD1 is able to bindphosphoceramides with a diversity of aliphatic chains, however GLTPD1 has a preference for lipids with saturated C16:0 or monounsaturated C18:1 aliphatic chains. Moreover, GLTPD1 is inefficient with phosphoceramides which contains lignoceryl(C24:0). GLTPD1 participates in the regulation of the cellular levels ofceramide-1-phosphate, and in that way contributes to the regulation ofphospholipase PLA2G4A activity and the release of arachidonic acid.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

GLTPD1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 237 amino acids (1-214 a.a) and having a molecular mass of 26.8kDa.

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