
Product Data Sheet

Product Name: PTPMT1 Human
 Cat. No.: GP22202
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein-tyrosine phosphatase mitochondrial 1; PTEN-like phosphatase; Phosphoinositide lipid phosphatase; PTPMT1; MOSP; PLIP; DUSP23; PNAS-129.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMKVPGR AHRDWYHRID PTVLLGALPL RSLTRQLVQD ENVRGVITMN EEYETRFLCN SSQEWKRLGV EQLRLSTVDM TGIPTLDNLQ KGVQFALKYQ SLGQCVYVHC KAGRSRSATM VAAYLIQVHK WSPEEAVRAI AKIRSYIHIR PGQLDVLKEF HKQITARATK DGTFVISKT.		
Formulation	The PTPMT1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 1mM DTT and 0.15M NaCl.		

Introduction

Protein tyrosine phosphatase mitochondrial 1 (PTPMT1) is a broadly expressed PTP membrane protein with high expression levels in pancreatic beta cells. The PTPMT1 protein is completely restricted to the matrix face of the inner membrane of the mitochondrion. PTPMT1 is responsible for dephosphorylating mitochondrial proteins and thus has a major role in the production of ATP. PTPMT1 exhibits a specific preference for the lipid signaling molecule phosphatidylinositol 5-phosphate as substrate.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PTPMT1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 199 amino acids (28-201) and having a molecular mass of

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22.6kDa.PTPMT1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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