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PTPMT1 Human

Catalog #:ENPS-232

For research use only.

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

Synonyms: Protein-tyrosine phosphatase mitochondrial 1, PTEN-like phosphatase, Phosphoinositide lipid phosphatase, PTPMT1, MOSP, PLIP, DUSP23, PNAS-129.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMKVPGR AHRDWYHRID PTVLLGALPL RSLTRQLVQD ENVRGVITMN EEYETRFLCN SSQEWKRLGV EQLRLSTVDM TGIPTLDNLQ KGVQFALKYQ SLGQCVYVHC KAGRSRSATM VAAYLIQVHK WSPEEAVRAI AKIRSYIHIR PGQLDVLKEF HKQITARATK DGTFVISKT.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The PTPMT1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 1mM DTT and 0.15M NaCl.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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 and secretion of insulin. PTPMT1 exhibits a specific preference for the lipid signaling molecule phosphatidylinositol 5-phosphate as substrate.

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