

AR50178PU-N**Human PTPMT1 (28-201, His-tag) - Purified**

Alternate names:	MOSP, PLIP, PNAS-129, PTEN-like phosphatase, Phosphoinositide lipid phosphatase, Protein-tyrosine phosphatase mitochondrial 1
Quantity:	0.5 mg
Concentration:	1 mg/ml (determined by Bradford)
Background:	PTPMT1 (protein tyrosine phosphatase mitochondrial 1), also known as MOSP or PLIP (phosphoinositide lipid phosphatase) and previously known as DUSP23, is a widely expressed PTP membrane protein with high expression levels in pancreatic beta cells. This protein exclusively localizes to the matrix face of the inner membrane of the mitochondrion. It is responsible for dephosphorylating mitochondrial proteins and therefore plays a significant role in the production of ATP and secretion of insulin. For its substrate, PTPMT1 displays a specific preference for the lipid signaling molecule phosphatidylinositol 5-phosphate.
Uniprot ID:	Q8WUK0
NCBI:	NP_783859.1
GeneID:	114971
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 1mM DTT, 0.15M NaCl.
Description:	Recombinant human PTPMT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHH SSGLVPRGSH MGSHMKVPGR AHRDWYHRID PTVLLGALPL RSLTRQLVQD ENVRGVITMN EEYETRFLCN SSQEWKRLGV EQLRLSTVDM TGIPTLDNLQ KGVQFALKYQ SLGQCVYVHC KAGRSRSATM VAAYLIQVHK WSPEEAVRAI AKIRSYIHIR PGQLDVLKEF HKQITARATK DGTFFVISKT Molecular weight: 22.6 kDa (199aa), confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Pagliarini DJ., et al. (2005) Mol Cell. 19(2):197-207.Merlot S., et al. (2003) J Biol Chem. 278(41):39866-73.

Pictures:

