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32-13269: IMPAD1 Human, Active

Application :	Functional Assay
Alternative Name :	Inositol monophosphatase 3, IMP 3, IMPase 3, EC 3.1.3.25, EC 3.1.3.7, Golgi 3-prime phosphoadenosine 5-prime phosphate 3-prime phosphatase, Golgi-resident PAP phosphatase, gPAPP, Inositol monophosphatase domain-containing protein 1, Inositol-1(or 4)-monophosphatase 3, Myo-inositol monophosphatase A3, IMPAD1, IMPA3, GPAPP, IMP-3

Description

Source: Escherichia Coli.
Sterile Filtered colorless solution.
Inositol Monophosphatase Domain Containing 1 or IMPAD1 is a protein, part of the inositol monophosphatase group of proteins. The protein is found in Golgi apparatus and enhances phosphoadenosine phosphate hydrolysis to adenosine monophosphate. When Mutation in the IMPAD1 gene occurs leads to GRAPP type chondrodysplasia and therefore joint dislocations. On long arm chromosome 1 a pseudogene can be found.
IMPAD1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids (34-359 a.a.) and having a molecular mass of 37.6kDa.IMPAD1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The IMPAD1 solution (0.25mg/ml) contains Phosphate-Buffered Saline (pH 7.4).
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSGRFSLFG LGGEPGGGAA GPAAAADGGT VDLREMLAVS VLAAVRGGDE VRRVRESNVL HEKSKGKTRE GAEDKMTSGD VLSNRKMFYL LKTAFPSVQI NTEEHVDAAD QEVILWDHKI PEDILKEVTT PKEVPAESVT VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV DGGSNVKARS SYNEKTPRIV VSRSHSGMVK QVALQTFGNQ TTIIPAGGAG YKVLALLDVP DKSQEKADLY IHVTYIKKWD ICAGNAILKA LGGHMTTLSG EEISYTGSDG IEGGLLASIR MNHQALVRKL PDLEKTGHK

Application Note

Specific activity is > 3300pmol/min/ug, and is defined as its ability to dephosphorylate adenosine 3'5'-diphosphate sodium slat at pH7.5, 25Ã‚Â°C.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.