Recombinant Human IMPAD1, His-tagged

Cat. No. IMPAD1-7107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IMPAD1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	34-359aa
Description	Inositol monophosphatase 3, also known as IMPAD1, is a member of the inositol monophosphatase family. IMPAD1 is localized to the Golgi apparatus and catalyzes the hydrolysis of phosphoadenosine phosphate (PAP) to adenosine monophosphate (AMP). Mutations in this gene are a cause of GRAPP type chondrodysplasia with joint dislocations, and a pseudogene of this gene is located on the long arm of chromosome 1.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol
Molecular Mass	37.6kDa (349aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSGRFSLFG LGGEPGGGAA GPAAAADGGT VDLREMLAVS VLAAVRGGDE VRRVRESNVL HEKSKGKTREGAEDKMTSGD VLSNRKMFYL LKTAFPSVQI NTEEHVDAAD QEVILWDHKI PEDILKEVTT PKEVPAESVT VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV DGGSNVKARS SYNEKTPRIV VSRSHSGMVK QVALQTFGNQ

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	TTIIPAGGAG YKVLALLDVPDKSQEKADLY IHVTYIKKWD ICAGNAILKA LGGHMTTLSG EEISYTGSDG IEGGLLASIR MNHQALVRKL PDLEKTGHK
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	IMPAD1 inositol monophosphatase domain containing 1 [Homo sapiens]
Official Symbol	IMPAD1
Synonyms	IMPAD1; inositol monophosphatase domain containing 1; inositol monophosphatase 3; FLJ20421; IMPA3; IMPase 3; golgi-resident PAP phosphatase; myo-inositol monophosphatase A3; inositol-1(or 4)-monophosphatase 3; inositol monophosphatase domain-containing protein 1; Golgi 3-prime phosphoadenosine 5-prime phosphate 3-prime phosphatase; GPAPP; IMP 3; IMP-3;
Gene ID	54928
mRNA Refseq	NM_017813
Protein Refseq	NP_060283
MIM	614010

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UniProt ID	Q9NX62
Chromosome Location	8q12.1
Pathway	D-myo-inositol (1,4,5)-trisphosphate degradation, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate degradation, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, Ins(1,3,4,5)P4 => Ins(1,3,4)P3 => myo-inositol, organism-specific biosystem;
Function	3(2),5-bisphosphate nucleotidase activity; 3-nucleotidase activity; hydrolase activity; inositol monophosphate 1-phosphatase activity; inositol monophosphate 3-phosphatase activity; inositol monophosphate 4-phosphatase activity; metal ion binding;

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