

IMPAD1, human recombinant protein
Inositol monophosphatase 3, GPAPP, IMP 3, IMP-3, IMPA3
Catalog # PBV11371r**Specification****IMPAD1, human recombinant protein - Product info**

Primary Accession	O9NX62
Concentration	0.25
Calculated MW	37.6 kDa (349 aa, 34-359 aa + His Tag) KDa

IMPAD1, human recombinant protein - Additional Info

Gene ID	54928
Gene Symbol	IMPAD1
Other Names	
Inositol monophosphatase 3, GPAPP, IMP 3, IMP-3, IMPA3	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity > 3300 pmole/min/ µg
Sequence	MGSSHHHHHH SSGLVPRGSH MGSGRFSLFG LGGEPPGGGAA GPAAAADGGT VDLREMLAVS VLA AVRGGDE VRRVRESNVL HEKSKGKTRE GAEDKMTSGD VLSNRKMFYL LKTAFFPSVQI NTEEHVDAAD QEVLWDH KI PEDILKEVTT PKEVPAESVT VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV DGGSNVKARS SYNEKTPRIV VSRSHSGMVK QVALQTFGNQ TTIIPAGGAG YKVLALLDVP DKSQEKADLY IHVTYIKKWD ICAGNAILKA LGGHMTTSLG EEISYTGSDG IEGGLLASIR MNHQALVRKL PDLEKTGHK

Target/Specificity
IMPAD1**Format**
Liquid**Storage**
-20°C; 0.25 mg/ml solution in PBS (pH 7.4).**IMPAD1, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IMPAD1, human recombinant protein - Images

IMPAD1, human recombinant protein - Background

IMPAD1, also known as Inositol monophosphatase 3, 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. Recombinant human IMPAD1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

IMPAD1, human recombinant protein - References

Parthasarathy L.,et al.Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Frederick J.P.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:11605-11612(2008).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).
Van Damme P.,et al.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012).