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IMPAD1, human recombinant protein

Inositol monophosphatase 3, GPAPP, IMP 3, IMP-3, IMPA3
Catalog # PBV11371r

Specification

IMPAD1, human recombinant protein - Product info

Primary Accession	Q9NX62
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 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

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 Cytomety
- 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

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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).
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