

# Recombinant human IMPAD1 protein

Catalog Number: ATGP1889

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

34-359aa

### UniProt No.

Q9NX62

### NCBI Accession No.

NP\_060283

### Alternative Names

Inositol monophosphatase 3, GPAPP, IMP 3, IMP-3, IMPA3

## PRODUCT SPECIFICATION

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### Molecular Weight

37.6 kDa (349aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 20% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human IMPAD1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

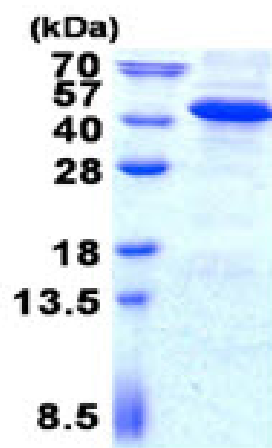
MGSSHHHHHH SSGLVPRGSH MSGRFSFLFG LGGEPGGGAA GPAAAADGGT VDLREMLAVS VLA AVRGGDE  
VRRVRESNVL HEKSKGKTRE GAEDKMTSGD VLSNRKMFYL LKTAFPSVQI NTEEHVDAAD QEVLWDHKI PEDILKEVTT  
PKEVPAESVT VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV DGGSNVKARS SYNEKTPRIV  
VSRSHSGMVK QVALQTFGNQ TTIIPAGGAG YKVLALLDVP DKSQEKADLY IHVTYIKKWD ICAGNAILKA LGGHMTTSLG  
EISYTGSDG IEGLLASIR MNHQALVRKL PDLEKTGHK

## General References

Vissers L E., et al. (2011) Am J Hum Genet. 88(5):608-15.  
Kalujnaia S., et al. (2010) FASEB J. 24(10):3981-91.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)