

IMPAD1, human recombinant

CATALOG #:	7812-10	10 µg
ALTERNATE NAMES:	Inositol monophosphatase 3, GPAPP, IMP 3, IMP-3, IMPA3	
SOURCE:	E. Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	37.6 kDa (349 aa, 34-359 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	0.25 mg/ml solution in PBS (pH 7.4).	

STORAGE CONDITIONS:

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.

DESCRIPTION:

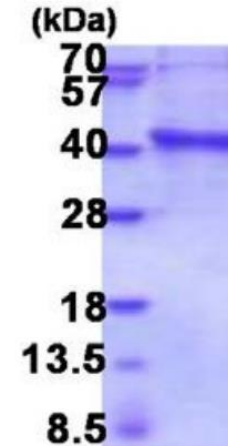
IMPAD1, also known as Inositol monophosphatase 3, is a member of the inositol monophosphatase family. IMPAD1 is localized to the Golgi apparatus and catalyzes the hydrolysis of phosphoadenosine phosphate (PAP) to adenosine monophosphate (AMP). Mutations in this gene are a cause of GRAPP type chondrodysplasia 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.

AMINO ACID SEQUENCE:

MGSSHHHHHH SGLVPRGSH MGSGRFSFLG LGGEPGGGAA GPAAAADGGT
 VDLREMLAVS VLAAVRGGDE VRRVRESNVL HEKSKGKTRE GAEDKMTSGD
 VLSNRKMFYL LKTAFPSVQI NTEEHVDAAD QEVILWDHKI PEDILKEVTT PKEVPAESVT
 VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV
 DGGSNVKARS SYNEKTPRIV VSRSHSGMVK QVALQTFGNQ TTIPAGGAG YKVLALLDVP
 DKSQEKADLY IHVTYIKKWD ICAGNAILKA LGGHMTTSLG EEISYTGSDG IEGLLASIR
 MNHQALVRKL PDLEKTGHK

BIOLOGICAL ACTIVITY:

Specific activity > 3300 pmole/min/µg, its ability to dephosphorylate adenosine 3'5'-diphosphate sodium salt at pH 7.5, 25°C.



15% SDS-PAGE (3µg)

Human Recombinant IMPAD1

RELATED PRODUCTS:

- Proteins and Enzymes

FOR RESEARCH USE ONLY! Not to be used in humans.

