

Product datasheet for **AR51806PU-N**

Inositol monophosphatase 3 / IMPA3 (34-359, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Inositol monophosphatase 3 / IMPA3 (34-359, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MSGRFSFLG LGGEPGGGAA GPAAAADGGT VDLREMLAVS VLAAVRGGDE VRRVRESNVL HEKSKGKTRE GAEDKMTSGD VLSNRKMFYL LKTAFPSVQI NTEEHVDAAD QEVILWDHKE PEDILKEVTT PKEVPAESVT VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV DGGSNVKARS SYNEKTPRIV VSRSHSGMVK QVALQTFGNQ TTIIPAGGAG YKVLALLDVP DKSQEKADLY IHVTYIKKWD ICAGNAILKA LGGHMTTSLG EEISYTGSDG IEGLLASIR MNHQALVRKL PDLEKTGHK
Tag:	His-tag
Predicted MW:	37.6 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate Buffered Saline (pH 7.4)
Bioactivity:	Specific: Specific activity > 3300 pmole/min/ug, its ability to dephosphorylate adenosine 3'5'-diphosphate sodium salt at pH 7.5, 25C.
Preparation:	Liquid purified protein
Applications:	Protocol: 1. Prepare 1mM PAP in 20mM Tris-HCl (PH 7.5), 15mM MgCl ₂ . 2. Dilute IMPAD1 various concentration (20ug/ml, 10ug/ml, 5ug/ml) in 20mM Tris-HCl (PH 7.5), 15mM MgCl ₂ , containing blank of 20mM Tris-HCl, 15mM MgCl ₂ 3. Make the Phosphate standard range of 0.31 nmol to 20 nmol per well. 4. Load 25 ul of 1mM PAP add 25 ul of diluted IMPAD1 to well and load 50 ul of phosphate standard. 5. Incubate for 15 minute at 25C. 6. Add 150 ul of Malachite green solution mix and incubate for 15 minute at 25C. 7. Read at 650nm. - Malachite green solution: Ammonium molybdate 675 mg, Malachite green carbinol hydrochloride 3.3 mg in 50 ml of 1M H ₂ SO ₄ .



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Protein Description:	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.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_060283
Locus ID:	54928
UniProt ID:	Q9NX62 , A0A024R7W0
Cytogenetics:	8q12.1
Synonyms:	GPAPP; IMP-3; IMP 3; IMPA3; IMPAD1
Summary:	This gene encodes a member of the inositol monophosphatase family. The encoded protein 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. [provided by RefSeq, Dec 2011]
Protein Families:	Transmembrane

Product images: