

Recombinant Mouse Impad1 Protein, His-tagged

Cat. No. Impad1-44M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IMPAD1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	IMPAD1, also known as inositol monophosphatase 3, may play a role in the formation of skeletal elements derived through endochondral ossification, possibly by clearing adenosine 3, 5-bisphosphate produced by Golgi sulfotransferases during glycosaminoglycan sulfation.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	36.2kDa (332aa)28-40KDa (SDS-PAGE under non-reducing conditions.)
AA Sequence	ADPGRFSLFG LGSEPAAGEA EVASDGGTVD LREMLAVAVL AAERGGDEV RVRESNVLHE KSKGKTREGA DDKMTSGDVL SNRKMFYLLKTAFPNVQINT EEHVDASDKE VIVWNRKIPE DILKEIAAPK EVPAESVTW IDPLDATQEY TEDLRKYVTT MVCVAVNGKP VLGVIHKPFSEYTAWAMVDG GSNVKARSSY NEKTPKIIVS RSHAGMVKQV ALQTFGNQTS IIPAGGAGYK VLALLDVPDM TQEKADLYIH VTYIKKWDICAGNAILKALG GHMTTLNGEE ISYTGSDGIE GGLLASIRMN HQALVRKLPD LEKSGHHHHH HH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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Purity	>95% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	Impad1 inositol monophosphatase domain containing 1 [Mus musculus]
Official Symbol	Impad1
Synonyms	IMPAD1; IMP 3; IMPase 3; Jaws; gPAPP; AA408880; AI451589; AL022796
Gene ID	242291
mRNA Refseq	NM_177730
Protein Refseq	NP_808398
MIM	
UniProt ID	
Pathway	Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, Ins(1,3,4,5)P4 =>Ins(1,3,4)P3 => myo-inositol, organism-specific biosystem; Inositol phosphate metabolism, Ins(1,3,4,5)P4 => Ins(1,3,4)P3 =>
Function	3(2),5-bisphosphate nucleotidase activity; 3-nucleotidase activity; hydrolase activity;

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inositol monophosphate 1-phosphatase activity; inositol monophosphate 3-phosphatase activity; inositol monophosphate 4-phosphatase activity; inositol monophosphate phosphatase activity; metal ion binding;

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