Recombinant Mouse Bpnt2 Protein, His-tagged

Cat. No. Bpnt2-7384M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bpnt2 Protein with a His tag.
Species	Mouse
ProteinLength	34-356
Description	Exhibits 3'-nucleotidase activity toward adenosine 3',5'-bisphosphate (PAP), namely hydrolyzes adenosine 3',5'-bisphosphate into adenosine 5'-monophosphate (AMP) and a phosphate. 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. Has no activity toward 3'-phosphoadenosine 5'-phosphosulfate (PAPS) or inositol phosphate (IP) substrates including I1P, I(1,4)P2, I(1,3,4)P3, I(1,4,5)P3 and I(1,3,4,5)P4.
Form	Liquid
Molecular Mass	36.2 kDa
AA Sequence	ADPGRFSLFGLGSEPAAGEAEVASDGGTVDLREMLAVAVLAAERGGDEVRRVRES NVLHEKSKGKTREGADDKMTSGDVLSNRKMFYLLKTAFPNVQINTEEHVDASDKEVI VWNRKIPEDILKEIAAPKEVPAESVTVWIDPLDATQEYTEDLRKYVTTMVCVAVNGKP VLGVIHKPFSEYTAWAMVDGGSNVKARSSYNEKTPKIIVSRSHAGMVKQVALQTFG NQTSIIPAGGAGYKVLALLDVPDMTQEKADLYIHVTYIKKWDICAGNAILKALGGHMT TLNGEEISYTGSDGIEGGLLASIRMNHQALVRKLPDLEKSGHHHHHHH

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Endotoxin	< 1.0 EU/μg of protein (determined by LAL method)
Purity	> 95 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.

GENE INFORMATION

Gene Name	Bpnt2 3'(2'), 5'-bisphosphate nucleotidase 2 [Mus musculus (house mouse)]
Official Symbol	Bpnt2
Synonyms	Bpnt2; 3'(2'), 5'-bisphosphate nucleotidase 2; g; Ja; Imp; Jaws; IMP 3; gPAPP; Impad1; AA408880; AI451589; AL022796; IMPase 3; B230207P20; 1110001C20Rik; Golgi-resident adenosine 3',5'-bisphosphate 3'-phosphatase; Golgi 3-prime phosphoadenosine 5-prime phosphate 3-prime phosphatase; golgi-resident PAP phosphatase; inositol monophosphatase 3; inositol monophosphatase domain containing 1; inositol monophosphatase domain-containing protein 1; inositol-1(or 4)-monophosphatase 3; myo-inositol monophosphatase A3; phosphoadenosine phosphate 3'-nucleotidase; EC 3.1.3.7
Gene ID	242291
mRNA Refseq	NM_177730

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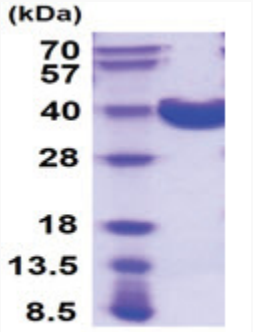
Protein Refseq	NP_808398
UniProt ID	Q80V26
SDS-PAGE	 15% SDS-PAGE (3ug)

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