Recombinant mouse IMPAD1 protein

Catalog Number: ATGP3497

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
34-356aa

UniProt No.
Q80V26

NCBI Accession No.
NP_808398

Alternative Names
Inositol monophosphatase 3, IMPAD1, 1110001C20Rik, AA408880, AI451589, AL022796, B230207P20, gPAPP, Jaws

PRODUCT SPECIFICATION

Molecular Weight
36.2 kDa (332aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Specific activity is > 5,000pmol/min/ug and is defined as the amount of enzyme that hydrolyze Adenosine 3, 5-diphosphate per minute at pH 7.5 at 25C.

Tag
His-Tag

Application
Enzyme Activity,SDS-PAGE

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.

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BACKGROUND

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. Recombinant mouse IMPAD1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

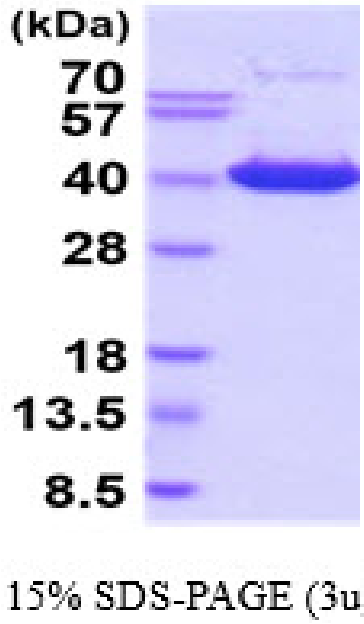
ADPGRFSLFG LGSEPAAGEA EVASDGGTVD LREMLAVAVL AAERGGDEVR RVRESNVLHE KSKGKTREGA DDKMTSGDVL SNRKMFYLLK TAFPNVQINT EEHVDASDKE VIVWNRKIPE DILKEIAAPK EVPAESVTVW IDPLDATQEY TEDLRKYVTT MVCVAVNGKP VLGVIHKPFS EYTAWAMVDG GSNVKARSSY NEKTPKIIVS RSHAGMVKQV ALQTFGNQTS IIPAGGAGYK VLALLDVPDM TQEKADLYIH VTYIKKWDIC AGNAILKALG GHMTTLNGEE ISYTGSDGIE GGLLASIRMN HQALVRKLPD LEKSGHHHHH HH

General References

Strott CA. (2002) Endocr Rev. 23:703-732.
Frederick JP., et al. (2008) Proc Natl Acad Sci U S A. 105:11605-11612.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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