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IMPAD1 Mouse Bioactive

Inositol Monophosphatase Domain Containing 1 Mouse Recombinant Bioactive RCP1126

Product Overview

Name	IMPAD1 Mouse Bioactive

Description

Inositol Monophosphatase Domain Containing 1 Mouse Recombinant Bioactive

Accession (Primary)	Q80V26

Synonyms

Inositol monophosphatase 3, IMP 3, IMPase 3, Golgi 3-prime phosphoadenosine 5-prime phosphate 3-prime phosphatase, Golgi-resident PAP phosphatase, gPAPP, Inositol monophosphatase domain-containing protein 1, Inositol-1(or 4)-monophosphatase 3, Myo-inositol monophosphatase A3.

Introduction

Inositol monophosphatase 3 (IMPAD1) belongs to the inositol monophosphatase family. IMPAD1 is restricted to the Golgi apparatus and catalyzes the hydrolysis of phosphoadenosine phosphate (PAP) to adenosine monophosphate (AMP). IMPAD1 gene mutations cause the GRAPP type chondrodysplasia with joint dislocations, and a pseudogene of the IMPAD1 gene is located on the long arm of chromosome 1.

Source

Sf9, Baculovirus cells.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

IMPAD1 protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

ADP GRFSLFG LGSEPAAGEA EVASDGGTVD LREMLAVAVL AAERGGDEVR RVRESNVLHE KSKGKTREGA DDKMTSGDVL SNRKMFYLLK TAFPNVQINT EEHVDASDKE VIVWNRKIPE DILKEIAAPK EVPAESVTVW IDPLDATQEY TEDLRKYVTT MVCVAVNGKP VLGVIHKPFS EYTAWAMVDG GSNVKARSSY NEKTPKIIVS

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RSHAGMVKQV ALQTFGNQTS IIPAGGAGYK VLALLDVPDM TQEKADLYIH VTYIKKWDIC AGNAILKALG GHMTTLNGEE ISYTGSDGIE GGLLASIRMN HQALVRKLPD LEKSGH HHHH HH .

Biological Activity

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

Precautions

IMPAD1 Mouse Bioactive is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q80V26)