
Product Data Sheet

Product Name: IMPAD1 Mouse
 Cat. No.: GP23701
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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-inositolmonophosphatase A3; Impad1; Impa3.		
Amino Acid Sequence	ADPGRFSLFG LGSEPAAGEA EVASDGGTVD LREMLAVAVL AAERGGDEV RVRESNVLHE KSKGKTREGA DDKMTSGDVL SNRKM FYLLKTAFPNVQINT EEHV D ASDKE VIVWNRKIPE DILKEIAAPK EVPAESVTW IDPLDATQEY TEDLRKYVTT MVCVAVNGKP VLGVIHKPFSEYTAWAMVDG GSNVKARSSY NEKTPKIIVS RSHAGMVKQV ALQTFGNQTS IIPAGGAGYK VLALLDVPDM TQEKADLYIH VTYIKKWDIC AGNAILKALG GHMTTLNGEEISYTGSDGIE GLLASIRMN HQALVRKLPD LEKSGHHHHH HH.		
Formulation	IMPAD1 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IMPAD1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 332 amino acids (34-356aa) and having a molecular mass of 36.2kDa (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). IMPAD1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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