
Product Data Sheet

Product Name: IMPAD1 Human, Active

Cat. No.: GP26296

Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Inositol monophosphatase 3, IMP 3, IMPase 3, EC 3.1.3.25, EC 3.1.3.7, 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, IMPAD1, IMPA3, GPAPP, IMP-3

Amino Acid Sequence
 MGSSHHHHHH SGLVPRGSH MGSGRFSLFG LGGEPGGGAA GPAAAADGGT
 VDLREMLAVS VLA AVRGGDE VRRVRESNVL HEKSKGKTRE GAEDKMTSGD
 VLSNRKMFYL LKTAFPSVQI NTEEHVDAAD QEVILWDHKI PEDILKEVTT
 PKEVPAESVT VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP
 FSEYTAWAMV DGGSNVKARS SYNEKTPRIV VSRSHSGMVK QVALQTFGNQ
 TTIIPAGGAG YKVLALLDVP DKSQEKADLY IHVTYIKKWD ICAGNAILKA
 LGGHMTTSLG EEISYTGSDG IEGLLASIR MNHQALVRKL PDLEKTGHK

Formulation The IMPAD1 solution (0.25mg/ml) contains Phosphate-Buffered Saline (pH 7.4).

Introduction

Inositol Monophosphatase Domain Containing 1 or IMPAD1 is a protein, part of the inositol monophosphatase group of proteins. The protein is found in Golgi apparatus and enhances phosphoadenosine phosphate hydrolysis to adenosine monophosphate. When Mutation in the IMPAD1 gene occurs leads to GRAPP type chondrodysplasia and therefore joint dislocations. On long arm chromosome 1 a pseudogene can be found.

Biological Activity

Specific activity is > 3300pmol/min/ug, and is defined as its ability to dephosphorylate

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

Product Data Sheet

adenosine 3'5'-diphosphate sodium salt at pH7.5, 25°C.

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.

Background

IMPAD1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids (34-359 a.a.) and having a molecular mass of 37.6kDa. IMPAD1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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