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**Product Data Sheet**


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Product Name: IMPAD1 Human

Cat. No.: GP23700

Batch No.: 1

**Product Data**

Purity &gt;98%

Source Escherichia Coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

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 QEVLWDHDKI PEDILKEVTT PKEVPAESVT VWIDPLDATQ EYTEDLRKYV TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV DGGSNVKARS SYNEKTPRIV VSRSHSGMVK QVALQTFGNQ TTIIPAGGAG YKVLALLDVP DKSQEKADLY IHVTYIKKWD ICAGNAILKA LGGHMTTSLG EEISYTGSDG IEGLLASIR MNHQALVRKL PDLEKTGHK.

Formulation IMPAD1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2M Urea and 20% 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

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

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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.

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