

IMPAD1, 34-359aa, Human, His tag, E.coli

Cat.NO.: TP02658

3th Edition

Synonyms:Inositol monophosphatase 3, GPAPP, IMP 3, IMP-3, IMPA3

Description:Inositol monophosphatase 3, also known as IMPAD1, is a member of the inositol monophosphatase family. IMPAD1 is localized to the Golgi apparatus and catalyzes the hydrolysis of phosphoadenosine phosphate (PAP) to adenosine monophosphate (AMP). Mutations in this gene are a cause of GRAPP type chondrodysplasia with joint dislocations, and a pseudogene of this gene is located on the long arm of chromosome 1. Recombinant human IMPAD1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol

Molecular Weight:37.6kDa (349aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSGRFSLFGLGGEPGGGAAGPAAAADGGTVDLREMLAVSVLAAVRGGDEVRR
VRESNVLHEKSKGKTREGAEDKMTSGDVLSNRKMFYLLKTAFPSVQINTEEHVDAADQEVLWDHKIPEDILKEVTT
PKEVPAESVTWIDPLDATQEYTEDLRKYVTTMVCVAVNGKPM LGVIHKPFSEYTAWAMVDGGSNVKARSSYNEK
TPRIVVSRSHSGMVKQVALQTFGNQTTIIPAGGAGYKVLALLDVPDKSQEKADLYIHVTYIKKWDICAGNAILKALGG
HMTTLSGEEISYTGSDGIEGGLLASIRMNHQALVRKLPDLEKTGHK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.