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AR50713PU-S Human Inositol monophosphatase 3 / IMPA3 (34-359, His-tag) - Purified

Alternate names: IMPAD1, IMPase 3, Inositol monophosphatase domain-containing protein 1, Inositol-1(or 4)-monophosphatase 3, Myo-inositol monophosphatase A3

Quantity: 0.1 mg

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

Background: 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.

Uniprot ID: Q9NX62

NCBI: NP_060283

GeneID: 54928

Species: Human

Source: E. coli

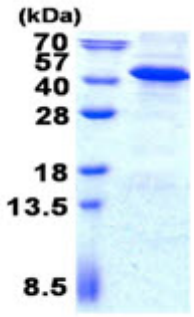
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol

Description: Recombinant human IMPAD1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSGRFSLFG LGGEPGGGAA GPAAAADGGT VDLREMLAVS
VLAAVRGGDE VRRVRESNVL HEKSKGKTRE GAEDKMTSGD VLSNRKMFYL LKTAFPSVQI
NTEEHVDAAD QEVILWDHKI PEDILKEVTT PKEVPAESVT VWIDPLDATQ EYTEDLRKYV
TTMVCVAVNG KPMLGVIHKP FSEYTAWAMV DGGSNVKARS SYNEKTPRIV VSRSHSGMVK
QVALQTFGNQ TTIIPAGGAG YKVLALLDVP DKSQEKADLY IHVTYIKKWD ICAGNAILKA
LGGHMTTLSG EEISYTGSDG IEGGLLASIR MNHQALVRKL PDLEKTGHK
Molecular weight: 37.6 kDa (349aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Vissers L E., et al. (2011) Am J Hum Genet. 88(5):608-15.Kalujnaia S., et al. (2010) FASEB J. 24(10):3981-91.

Pictures:



15% SDS-PAGE (3ug)