

IMPA1 recombinant protein

IMPA1, 1-277aa, Human, His tag, E Coli

CATALOG # AAA48587	HOST E Coli	APPLICATIONS SDS-Page
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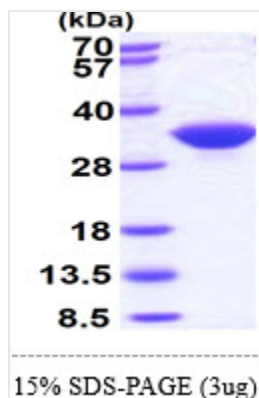
PRODUCT SYNONYMS

IMPA1; 1-277aa; Human; His tag; E Coli; Inositol monophosphatase 1; IMPA; IMP; IMPase 1; IMPA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMATP PKRSCPSFSA SSEGTRIKKI SIEGNIAAGK STFVNILKQL CEDWEVVPEP VARWCNVQST QDEFEEELTMS QKNGGNVLQM MYEKPERWSF TFQTYACLSR IRAQLASLNG KDKDAEKPVL FFERSVYSR YIFASNLYES ECMNETEWTI YQDWHDMN N QFGQSELDG IYLLQATPET CLHRIYLRGR NEEQGIPLEY LEKLHYKHES WLLHRTLKTN FDYLAQEVPI L TLDVNEDFKD KYESLVEKVK EFLSTL
Sequence Length	277
Applicable Applications for IMPA1 recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IMPA1 recombinant protein	IMPA1 (inositol monophosphatase1) is responsible for the provision of inositol required for synthesis of phosphatidylinositol and polyphosphoinositides. It plays a key role in the phosphatidylinositol signaling pathway by catalyzing the hydrolysis of inositol monophosphates. This protein has been identified as the pharmacological target for lithium action in the brain. Recombinant human IMPA1 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for IMPA1 recombinant protein	Metabolism
References	Schapiro MB., et al. (2002) Neurobiol Aging. 23 (3):389-96.; Atack JR., et al. (1992) Proc Natl Acad Sci u S A. 89 (21):10031-5.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031789
NCBI GeneID	3612
NCBI Accession #	NP_005527
NCBI GenBank Nucleotide #	NM_005536.3
UniProt Accession #	P29218; Q9UK71; B2R733; B4DLN3; B7Z6Q4; J3KQT7
Molecular Weight	32.3 kDa (297aa), confirmed by MALDI-TOF
NCBI Official Full Name	inositol monophosphatase 1 isoform 1
NCBI Official Synonym Full Names	inositol monophosphatase 1
NCBI Official Symbol	IMPA1
NCBI Official Synonym Symbols	IMP; IMPA; MRT59
NCBI Protein Information	inositol monophosphatase 1
UniProt Protein Name	Inositol monophosphatase 1
UniProt Gene Name	IMPA1
UniProt Synonym Gene Names	IMPA; IMP 1; IMPase 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.