

Recombinant human IMPA1/IMP1 protein

Catalog Number: ATGP0737

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-277aa

UniProt No.

P29218

NCBI Accession No.

NP_005527

Alternative Names

Inositol monophosphatase 1, IMPA, IMP, IMPase 1, Inositol monophosphatase 1

PRODUCT SPECIFICATION

Molecular Weight

32.3 kDa (297aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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.

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Amino acid Sequence

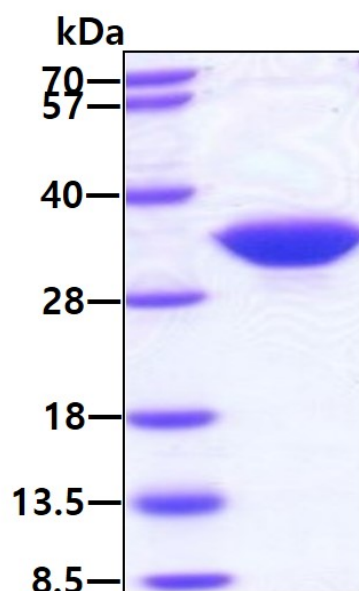
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EKMLISSIKE KYPHSFIGE ESVAAGEKSI LTDNPTWIID PIDGTTNFVH RFPFVAVSIG FAVNKKIEFG VVYSCVEGKM
YTARKGKGAF CNGQKLQVSQ QEDITKSLV TELGSSRTPETVRMVLNME KLF CIPVHGI RSVGTAAVNM CLVATGGADA
YYEMGIHCWD VAGAGIIVTE AGGVLM DVTG GPF DLM SRRV IAANNRILAE RIAKEIQVIP LQRDDED

General 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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.