

Recombinant human IMPA2 protein

Catalog Number: ATGP0913

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-288aa

UniProt No.

O14732

NCBI Accession No.

NP_055029

Alternative Names

Inositol monophosphatase 2, Inositol(myo)-1(or 4)-monophosphatase 2

PRODUCT SPECIFICATION

Molecular Weight

33.5 kDa (308aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT

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

IMPA2 belongs to the inositol monophosphatase family. This protein can use myo-inositol monophosphates, scylloinositol 1, 4-diphosphate, glucose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. IMPA2 has been implicated as the pharmacological target for lithium Li (+) action in brain. IMPA2 is thought to play a role in schizophrenia and bipolar disorder. Recombinant human IMPA2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

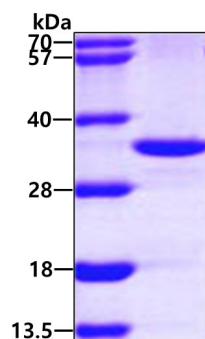
<MGSSHHHHHH SSGLVPRGSH> MKPSGEDQAA LAAGPWEECF QAAVQLALRA GQIIRKALTE EKRVTSTSA
ADLVTETDHL VEDLIISELR ERFPSHRFIA EAAAASGAKC VLTHSPTWII DPIDGTCNFV HRFPTVAVSI GFAVRQELEF
GVIYHCTEER LYTGRRGRGA FCNGQRLRVS GETDLSKALV LTEIGPKRDP ATCLKFLSNM ERLHAKAHG VRVIGSSTLA
LCHLASGAAD AYYQFGLHCW DLAAATVIIR EAGGIVIDTS GGPLDLMACR VVAASTREMA MLIAQALQTI NYGRDDEK

General References

Sjoholt G., et al. (2000) Mol Psychiatry. 5(2):172-80.
Yoshikawa T., et al. (1997) Mol Psychiatry. 2(5):393-7.

DATA

SDS-PAGE



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