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Recombinant human IMPA2 protein

Catalog Number: ATGP0913

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-288aa

UniProt No.

014732

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

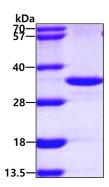
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General References

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.

