Recombinant human IPP-1/PPP1R1A protein

Catalog Number: IPP0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-171aa

UniProt No.
Q13522

NCBI Accession No.
NP_006732.3

Alternative Names
Protein phosphatase inhibitor-1, Protein phosphatase inhibitor, Protein phosphatase inhibitor-1 Protein phosphatase inhibitor 1, I 1, I1, Inhibitor 1, IPP 1, IPP1, PPP1R1A, Protein phosphatase 1 regulatory (inhibitor) subunit 1A, Protein phosphatase 1 regulatory subunit 1A.

PRODUCT SPECIFICATION

Molecular Weight
20kDa (179aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1mM PMSF, 1mM EDTA, 10% glycerol

Purity
> 85% 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
Protein phosphatase inhibitor-1 (IPP-1) plays an important role in the regulation of glycogen metabolism through inhibition of type-1 protein serine/threonine phosphatase (PP1) activity, and it has been implicated in the regulation of cell growth. IPP-1 activation may impose cAMP control over proteins that are not directly phosphorylated by PKA. In the presence of calcium, PPI-1 is inactivated by calcineurin (or PP2B). Recombinant

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human IPP-1, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

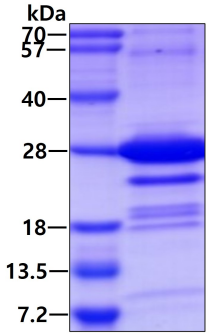
MEQDNSPRKI QFTVPLLEPH LDPEAAEQIR RRRPTPATLV LTSDQSSPEI DEDRIPNPHL KSTLAMSPRQ RKKMTRITPT MKELQMMVEH HLGQQQQGEE PEGAAESTGT QESRPPGIPD TEVESRLGTS GTAKKTAECI PKTHERGSKE PSTKEPSTHI PPLDSKGANS V<LEHHHHHH>

General References

Weiser DC., et al. (2004), J. Biol. Chem. 279(47):48904-14
Rodriguez P., et al. (2006), J. Biol. Chem. 281(50):38599-608

DATA

SDS-PAGE



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