

Recombinant human PICK1 protein

Catalog Number: ATGP2927

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-415aa

UniProt No.

Q9NRD5

NCBI Accession No.

NP_001034673

Alternative Names

PRKCA-binding protein, Protein interacting with PRKCA 1, PICK, PRKCABP

PRODUCT SPECIFICATION

Molecular Weight

49 kDa (438aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

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

PICK1 contains a PDZ domain, through which it interacts with protein kinase C, alpha (PRKCA). This protein may function as an adaptor that binds to and organizes the subcellular localization of a variety of membrane proteins. It has been shown to interact with multiple glutamate receptor subtypes, monoamine plasma membrane transporters, as well as non-voltage gated sodium channels, and may target PRKCA to these membrane proteins and thus regulate their distribution and function. PICK1 has also been found to act as an anchoring protein that specifically targets PRKCA to mitochondria in a ligand-specific manner. Recombinant human PICK1 protein, fused

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

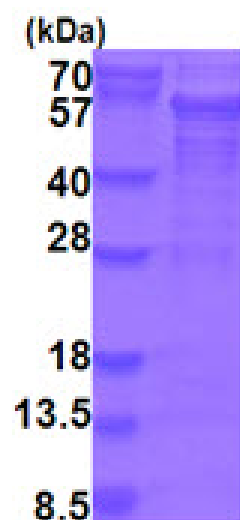
<MGSSHHHHHH SSGLVPRGSH MGS>MFADLDY DIEEDKLGIP TVPGKVTLQK DAQNIGISI GGGAQYCPCL YIVQVFDNTP
AALDGTVAAG DEITGVNGRS IKGKTKVEVA KMIQEVKGEV TIHYNKLQAD PKQGMSLDIV LKKVKHRLVE NMSSGTADAL
GLSRAILCND GLVKRLEELE RTAELYKGMT EHTKNLLRAF YELSQTHRAF GDVFSVIGVR EPQPAASEAF VKFADAHRSI
EKFGIRLLKT IKPMLTDLNT YLNKAIPDTR LTIKKYLDVK FEYLSYCLKV KEMDDEEYSC IALGEPLYRV STGNYEYRLI
LRCRQEARAR FSQMRKDVLE KMELLDQKHV QDIVFQLQRL VSTM SKYYND CYAVLRDADV FPIEVDLAHT TLAYGLNQEE
FTDGE EEEEE EDTAAGEPSR DTRGAAGPLD KGGSWCDS

General References

Shao X., et al. (2010) Neurochem. Int. 56:962-970.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)