Recombinant human RKIP/PEBP1 protein

Catalog Number: ATGP0382

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-187aa

UniProt No.
P30086

NCBI Accession No.
NP_002558

Alternative Names
Phosphatidylethanolamine binding protein 1, PBP, Prostatic binding protein, RKIP, HCNP, HCNPpp, PEBP, Raf kinase inhibitory protein, Hippocampal cholinergic neurostimulating peptide

PRODUCT SPECIFICATION

Molecular Weight
21 kDa (187aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
Non-Tagged

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
Phosphatidylethanolamine binding protein 1 (PEBP1), also known as Raf kinase inhibitor protein (RKIP), is a member of the phosphatidylethanolamine-binding protein family and a serine protease inhibitor which inhibits thrombin, neuropsin. PEBP1 plays a pivotal modulatory role in several protein kinase signaling cascades. Protein

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kinase C (PKC) phosphorylates PEBP1, resulting in release of Raf-1 and activation of MEK and ERK. Expressed in many tissues, PEBP1 is implicated in the regulation of such physiological processes as membrane biosynthesis, spermatogenesis, neural development, and metastasis suppression. Recombinant human PEBP1 was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

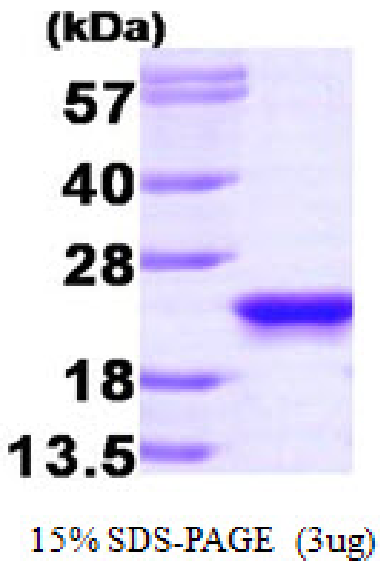
MPVDLSKWSG PLSLQEVDEQ PQHPLHVTYA GAAVDELGKV LTPTQVKNRP TSISWDGLDS GKLYTLVLTD PDAPSRKDPK YREWHHFLVV NMKGNDISSG TVLSDYVGSG PPKGTGLHRY VWLVYEQDRP LKCDEPILSN RSGDHRGKFK VASFRKKYEL RAPVAGTCYQ AEWDDYVPKL YEQLSGK

General References

Keller ET., et al. (2004) Biochem Pharmacol. 68(6):1049-53.
Park S., et al. (2005) Oncogene. 24(21):3535-40.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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