Recombinant mouse RKIP/PEBP1 protein

Catalog Number: ATGP3172

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-187aa

UniProt No.
P70296

NCBI Accession No.
NP_061346

Alternative Names
Phosphatidylethanolamine-binding protein 1, HCNP, Pbp, Pbp1, Pbqr, Rkip, prostatic binding protein, Raf kinase inhibitory protein, hippocampal cholinergic neurostimulating peptide

PRODUCT SPECIFICATION

Molecular Weight
23.2 kDa (210aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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
Pebp1 also known as Phosphatidylethanolamine-binding protein 1. The protein Binds with ATP, opioids and phosphatidylethanolamine. Pebp1 exerts inhibitory activity against several serine proteases including thrombin, neuropsin, and chymotrypsin, it also inhibits the kinase activity of RAF1 by inhibiting its activation and by dissociating the RAF1/MEK complex and acting as a competitive inhibitor of MEK phosphorylation. Also, targeting Pebp1 levels can delay photoreceptor degeneration, assisting in extending the time-window for treating such

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rapidly progressing blindness disorder. Recombinant mouse Pebp1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

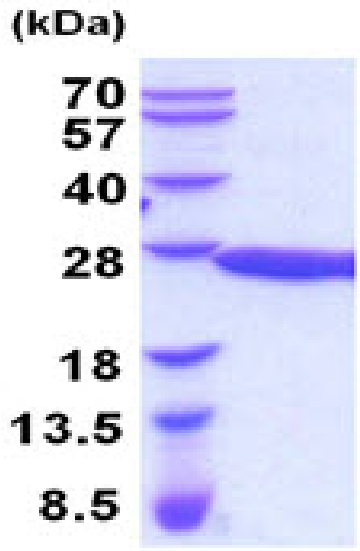
MGSSHHHHHH SSGLVPRGSH MGSMAADISQ WAGPLCLQEV DEPPQHALRV DYAGVTVDEL GKVLTPTQVM NRPSSISWDG LDPGKLYTLV LTDPDAPSRK DPKFREWHHF LVVNMKGNDI SSGTVLSDYV GSGPPSGTGL HRYVWLVYEQ EQPLSCDEPI LSNKSGDNRG KFKVETFRKK YNLGAPVAGT CYQAEWDDYV PKLYEQLSGK

General References

Hengst U., et al. (2001) J Biol Chem. 276(1):535-40
Subramanian B., et al. (2014) Invest Ophthalmol Vis Sci. 55(9):5788-94

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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