

RKIP/PEBP1 Protein, Human

Cat. No.:	HY-P77179
Synonyms:	Phosphatidylethanolamine-binding protein 1; HCNPpp; Neuropolypeptide h3; HCNP; PBP; PEBP
Species:	Human
Source:	E. coli
Accession:	P30086 (M1-K187)
Gene ID:	5037
Molecular Weight:	Approximately 21.1 kDa

PROPERTIES

AA Sequence	<p> M P V D L S K W S G P L S L Q E V D E Q P Q H P L H V T Y A G A A V D E L G K V L T P T Q V K N R P T S I S W D G L D S G K L Y T L V L T D P D A P S R K D P K Y R E W H H F L V V N M K G N D I S S G T V L S D Y V G S G P P K G T G L H R Y V W L V Y E Q D R P L K C D E P I L S N R S G D H R G K F K V A S F R K K Y E L R A P V A G T C Y Q A E W D D Y V P K L Y E Q L S G K </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4, 10% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The RKIP/PEBP1 protein exhibits versatile binding capabilities, interacting with ATP, opioids, and phosphatidylethanolamine, while displaying lower affinity for phosphatidylinositol and phosphatidylcholine. This protein serves as a serine protease inhibitor, effectively inhibiting thrombin, neuropsin, and chymotrypsin, albeit not trypsin, tissue-type plasminogen activator, and elastase. Notably, RKIP/PEBP1 plays a pivotal role in modulating the kinase activity of RAF1 by impeding its activation, dissociating the RAF1/MEK complex, and acting as a competitive inhibitor of MEK phosphorylation. Additionally, it is implicated in the function of presynaptic cholinergic neurons in the central nervous system, enhancing the production of choline acetyltransferase without affecting acetylcholinesterase. This regulatory function appears to be mediated by a specific receptor.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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