

## PKI-beta Protein, Human (His)

<b>Cat. No.:</b>	HY-P71209
<b>Synonyms:</b>	cAMP-Dependent Protein Kinase Inhibitor Beta; PKI-beta; PKIB; PRKACN2
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9C010 (M1-K78)
<b>Gene ID:</b>	5570
<b>Molecular Weight:</b>	Approximately 14.0 kDa

### PROPERTIES

<b>AA Sequence</b>	M R T D S S K M T D    V E S G V A N F A S    S A R A G R R N A L    P D I Q S S A A T D G T S D L P L K L E    A L S V K E D A K E    K D E K T T Q D Q L    E K P Q N E E K
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 20% Glycerol, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	<p>The PKI-beta protein is an exceptionally potent competitive inhibitor of cAMP-dependent protein kinase activity. Functioning as a regulatory molecule, PKI-beta exerts its inhibitory action by interacting with the catalytic subunit of the enzyme, particularly after the cAMP-induced dissociation of its regulatory chains. This regulatory mechanism underscores the dynamic nature of cAMP-dependent protein kinase activity and the pivotal role of PKI-beta in modulating this signaling pathway. By tightly regulating the catalytic subunit, PKI-beta plays a crucial role in modulating cellular responses to cAMP signaling, contributing to the fine-tuning of intracellular processes influenced by this important kinase, such as those related to cell growth, metabolism, and gene expression.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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