

## PKCi Protein, Human

<b>Cat. No.:</b>	HY-P701966
<b>Synonyms:</b>	HINT1; Adenosine 5'-monophosphoramidase HINT1; Desumoylating isopeptidase HINT1; Histidine triad nucleotide-binding protein 1; Protein kinase C inhibitor 1; Protein kinase C-interacting protein 1; PKCI-1
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P49773 (M1-G126)
<b>Gene ID:</b>	3094
<b>Molecular Weight:</b>	

### PROPERTIES

<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	Please use rapid thawing with running water to thaw the protein.
<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>PKCi protein displays versatile enzymatic activities, functioning as an adenosine 5'-monophosphoramidase capable of hydrolyzing purine nucleotide phosphoramidates, such as adenosine 5'-monophosphoramidate (AMP-NH<sub>2</sub>), to generate AMP and NH<sub>2</sub>. It also exhibits hydrolytic activity towards adenosine 5'-monophosphomorpholidate (AMP-morpholidate), guanosine 5'-monophosphomorpholidate (GMP-morpholidate), lysyl-AMP, Met-AMP, His-AMP, Asp-AMP, lysyl-GMP, and AMP-N-alanine methyl ester. Moreover, PKCi participates in the conversion of adenosine 5'-O-phosphorothioate and guanosine 5'-O-phosphorothioate to the corresponding nucleoside 5'-O-phosphates, releasing hydrogen sulfide in the process. Beyond its enzymatic functions, PKCi serves as a scaffolding protein, modulating transcriptional activation by the LEF1/TCF1-CTNNB1 complex and the MITF-CTNNB1 complex. Additionally, it influences p53/TP53 levels, p53/TP53-mediated apoptosis, and regulates the proteasomal degradation of target proteins through the SCF (SKP2-CUL1-F-box protein) E3 ubiquitin-protein ligase complex. Furthermore, PKCi exhibits SUMO-specific isopeptidase activity, deconjugating SUMO1 from RGS17 and RANGAP1. This multifaceted functionality underscores the diverse roles of PKCi in various cellular processes.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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