

Recombinant Human PRKAR1B, His-tagged

Cat. No. PRKAR1B-28125TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 229-381 of Human PKA regulatory subunit I beta with N terminal His tag, 153 amino acids, 24kDa.
Species	Human
Source	E.coli
ProteinLength	229-381 a.a.
Description	Cyclic AMP-dependent protein kinase A (PKA) is an essential enzyme in the signaling pathway of the second messenger cAMP. Through phosphorylation of target proteins, PKA controls many biochemical events in the cell including regulation of metabolism, ion transport, and gene transcription. The PKA holoenzyme is composed of 2 regulatory and 2 catalytic subunits and dissociates from the regulatory subunits upon binding of cAMP.
Conjugation	HIS
Tissue specificity	Four types of regulatory chains are found: I-alpha, I-beta, II-alpha, and II-beta. Their expression varies among tissues and is in some cases constitutive and in others inducible.
Form	Lyophilised:Reconstitute with 135 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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phosphate, 10mM Sodium chloride, pH 4.5

Storage

Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

DSYRRILMGSTLRKRKMYEEFLSKVSILESLEKWERLTVA DALEPVQFEDGEKIVVQ
GEPGDDFYIITEGTASVLQRR SPNEEYVEVGRLGPSDYFGEIALLNRPRAATVVAR
GP LKCVKLD RPRFERVLGPCSEILKRNIQRYNSFISLTV

Sequence Similarities

Belongs to the cAMP-dependent kinase regulatory chain family. Contains 2 cyclic nucleotide-binding domains.

GENE INFORMATION

Gene Name

PRKAR1B protein kinase, cAMP-dependent, regulatory, type I, beta [Homo sapiens]

Official Symbol

PRKAR1B

Synonyms

PRKAR1B; protein kinase, cAMP-dependent, regulatory, type I, beta; cAMP-dependent protein kinase type I-beta regulatory subunit;

Gene ID

5575

mRNA Refseq

NM_001164758

Protein Refseq

NP_001158230

MIM

176911

Uniprot ID

P31321

Chromosome Location

7pter-p22

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Pathway

Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Aquaporin-mediated transport, organism-specific biosystem; Ca-dependent events, organism-specific biosystem; CaM pathway, organism-specific biosystem;

Function

cAMP binding; cAMP-dependent protein kinase regulator activity; nucleotide binding;

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