

PKA/PRKACA Protein, Canine, Recombinant (His)

General Information

Synonyms:	PKA C alpha;PKACA;PPNAD4;PKA C α;PKA C-α;PKA C-alpha;PRKACA
Protein Construction:	Gly2-Phe350
Species:	Canine
Expression Host:	E. coli
Accession:	Q8MJ44
Molecular Weight:	41.51 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by SEC-HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in PBS, 200 mM NaCl (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The cAMP-dependent protein kinase PKA is a well-characterized member of the serine-threonine protein AGC kinase family and is the effector kinase of cAMP signaling. As such, PKA is involved in the control of a wide variety of cellular processes including metabolism, cell growth, gene expression and apoptosis. cAMP-dependent PKA signaling pathways play important roles during infection and virulence of various pathogens. Since fluxes in cAMP are involved in multiple intracellular functions, a variety of different pathological infectious processes can be affected by PKA signaling pathways.

Reference

Haidar M, et al. PKA and Apicomplexan Parasite Diseases. *Horm Metab Res.* 2017 Apr;49(4):296-300. doi: 10.1055/s-0042-118459. Epub 2016 Nov 1 PMID: 27835919; PMCID: PMC5614466.

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