Recombinant Dog cAMP-dependent protein kinase catalytic subunit alpha (PRKACA)

Product Code	CSB-BP822648DO
Abbreviation	PRKACA
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8MJ44
Product Type	Recombinant Protein
Immunogen Species	Canis lupus familiaris (Dog) (Canis familiaris)
Purity	>85% (SDS-PAGE)
Sequence	GNAAAKKGS EQESVKEFLA KAKEDFLKKW ENPAQNTAHL DQFERIKTLG TGSFGRVMLV KHKETGNHFA MKILDKQKVV KLKQIEHTLN EKRILQAVNF PFLVKLEFSF KDNSNLYMVM EYVPGGEMFS HLRRIGRFSE PHARFYAAQI VLTFEYLHSL DLIYRDLKPE NLLIDQQGYI QVTDFGFAKR VKGRTWTLCG TPEYLAPEII LSKGYNKAVD WWALGVLIYE MAAGYPPFFA DQPIQIYEKI VSGKVRFPSH FSSDLKDLLR NLLQVDLTKR FGNLKNGVND IKNHKWFATT DWIAIYQRKV EAPFIPKFKG PGDTSNFDDY EEEEIRVSIN EKCGKEFCEF
Source	Baculovirus
Target Names	PRKACA
Protein Names	Recommended name: cAMP-dependent protein kinase catalytic subunit alpha Short name= PKA C-alpha EC= 2.7.11.11
Expression Region	2-350
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. This protein is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.