

32-7701: Recombinant Human cGMP-Dependent Protein Kinase 1/PRKG1 (C-6His)(Discontinued)

Gene : PRKG1
Gene ID : 5592
Uniprot ID : Q13976

Description

Source: Human Cells.

MW :78.8kD.

Recombinant Human cGMP-Dependent Protein Kinase 1 is produced by our Mammalian expression system and the target gene encoding Gly2-Pro686 is expressed with a 6His tag at the C-terminus. cGMP-Dependent Protein Kinase 1 (PRKG1) belongs to the protein kinase superfamily and AGC Ser/Thr protein kinase family. PRKG1 contains one AGC-kinase C-terminal domain, two cyclic nucleotide-binding domains, and one protein kinase domain. PRKG1 is mainly expressed in the lung and placenta. PRKG1 acts as a key mediator of the nitric oxide (NO)/cGMP signaling pathway. PRKG1 can phosphorylate many proteins that regulate platelet activation and adhesion, smooth muscle contraction, cardiac function, gene expression, feedback of the NO-signaling pathway, and other processes involved in several aspects of the CNS like axon guidance, hippocampal and cerebellar learning, circadian rhythm, and nociception.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH8.0.

Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

Amino Acid : MGTLRDLQYALQEKIEELRQRDALIDELELELDQKDELIQKLQNELDKYRSVIRPATQQAQKQSASTLQGEPRTK
RQAISAEP TAFDIQDL SHVTLPFYPKSPQSKDLIKEAILDNDFMKNLELSQIQEIVDCMYPVEYKGDSCIIKEGDVG
SLVYVMEDGKVEVTKEGVKLC TMGPGKVFGE LAILYNCTRTATVKT LVNVKLWAI DRQCFQTIMMRTGLIKHTE
YMEFLKSVPTFQSLPEEILSKLADVLEETHYENGEYIIRQGARGDTFFIISKGT VNV TREDSPE DPVFLRTLKGKD
WFG EKALQGEDVRTANVIAAEAVTCLVIDRDSFKHLIGGLDDVSNKAYEDAEAKAKYEAEAAFFANLKLSDFNII
DTLGVGGFGRVELVQLKSEESKTFAMKILKRRHIVDTRQQEHIRSEKQIMQGAHSDFIVRLYRTFKDSKYLYMLM
EACLG GELWTILRDRGSFEDSTTRFYTACVVEAFAYLHSGIIRDLKPENLILDHRGYAKLVDFGFAKKIGFGKK
TWTFCGTPEYVAPEIILNKGHDISADYWSLGILMYELLTGSPPFSGPDPMKTYNII LRGIDMIEFPKKIAKNAANLIK
KLCRDNP SERLGNLKNGVKDIQKHKWFEGFNWEGLRKGTLTPPIIPSVASPTDTSNFDSPEDNDEPPPDDNS
GWDIDFVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.