Recombinant Human PRKG2 Kinase

Catalog No.: RP03417LQ

Sequence Information

Species
Human

Gene ID
5593

Swiss Prot
Q13237

Tags
N-GST

Synonyms
PRKG2; PRKGR2; cGK 2; cGK2; cGKII; cGMP-dependent protein kinase 2

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
114.0 kDa

Observed MW
90-120 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, 1 mM DTT and 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

PRKG2 encodes cGMP-dependent protein kinase II (cGKII), which is a serine /threonine kinase activated by the second messenger cGMP. cGKII is expressed abundantly in several tissues including the intestines, kidney, and brain, whereas it is found at lower levels in the lungs, prostate, growth plates, pancreas, and salivary glands. cGKII phosphorylates various targets that are important for several biological functions. For example, it plays a key role in modulating secretion from cells in the kidney, epithelium, and adrenal gland by phosphorylating the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) chloride channel. Importantly, loss-of-function mutations or genetic ablation of cGKII cause dwarfism in humans and rodents as cGKII regulates bone mass, as seen in human microdeletion 4q21 syndrome.

Basic Information

Description
Recombinant Human PRKG2 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe762) of Human PRKG2 (Accession #Q13237) fused with a N-GST tag.

Activity
The activity of PRKG2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

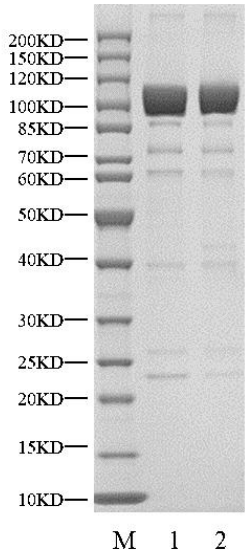
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

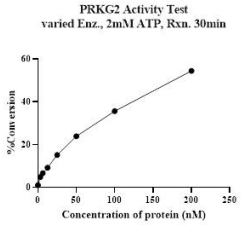
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Validation Data



Recombinant Human PRKG2 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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