

Recombinant Full Length Human PRKG2 Protein, C-Flag-tagged

Cat. No. PRKG2-1299HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PRKG2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein that belongs to the serine/threonine protein kinase family of proteins. The encoded protein binds to and inhibits the activation of several receptor tyrosine kinases. The membrane-bound protein is a regulator of intestinal secretion, bone growth and renin secretion. Alternate splicing results in multiple transcript variants encoding distinct isoforms whose regulatory N-termini differ in length but whose C-terminal catalytic domains are identical.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	87.3 kDa
AA Sequence	MGNGSVKPKHSHKHPDGHSGNLTTDALRNKVTELERELRRKDAEIQEREYHLKELRE QLSKQTVAIAELTE ELQNKCIQLNKLQDVVHMQGGSPLQASPDKVPLEVHRKTSGL VSLHSRRGAKAGVSAEPTTRTYDLNKPPEFSFEKARVRKDSSEKKLITDALNKNQFL KRLDPQQIKDMVECMYGRNYQQGSYIHKQGEPPGNHIFVLAE GRLEVFQGEKLLSSIP MWTTFGELAILYNCTRTASVKAITNVKVTWALDREVFQNMRRTAQARDEQYRNF LR SVSLLKNLPEDKLTKIIDCLEVEYYDKGDYIIREGEEGSTFFILAKGKVKTQSTEGHD

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QPQLIKTLQ KGEYFGEKALISDDVRSANIIAEENDVACLVIDRETFNQTVGTFEELQK
 YLEGYVANLNRDDEKRRHAKRS MSNWKLSKALSLEMIQLKEKVARFSSSSPFQNLII
 ATLGVGGFGRVELVKVKNENVAFAMKCIRKKHIV DTKQQEHVYSEKRILEELCSPFI
 VKLYRTFKDNKYVYMLLEACLGGELWSILRDRGSFDEPTSKFCVACV TEAFDYLHR
 LGIIYRDLKPENLILDAEGYLKLVDFGFAKKIGSGQKTWTFCTPEYVAPEVILNKGHD
 FS VDFWSLGILVYELLTGNPPFSGVDQMMTYNLILKGIEKMDFPKTRRPEDLIRRL
 CRQNPTERLGNLKN
 GINDIKKRWLNGFNWEGLKARSLPSPLQRELKGPIDHSYFDKYPPEKGMPPDELS
 GWDKDFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Gap junction, Long-term depression, Olfactory transduction
Full Length	Full L.

GENE INFORMATION

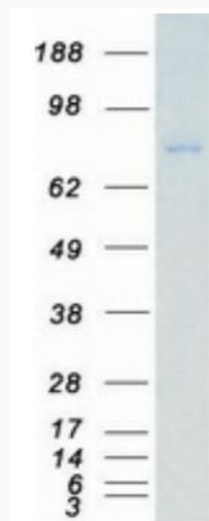
Gene Name [PRKG2 protein kinase cGMP-dependent 2 \[Homo sapiens \(human\) \]](#)

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Official Symbol	PRKG2
Synonyms	AMD4; PKG2; SMDP; cGK2; cGKII; PRKGR2
Gene ID	5593
mRNA Refseq	NM_006259.3
Protein Refseq	NP_006250.1
MIM	601591
UniProt ID	Q13237



Coomassie blue staining of purified PRKG2 protein.