

Product datasheet for **TP315879L**

CGK2 (PRKG2) (NM_006259) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase, cGMP-dependent, type II (PRKG2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215879 representing NM_006259 Red =Cloning site Green =Tags(s)

MGNGSVKPKHSHKHPDGHSGNLTDDALRNKVTLELERLRRKDAEIQEREYHLKELREQLSKQTVIAIELTE
ELQNKCIQLNKLQDWHMQGGSPQLASPDKVPLEVHRKTSGLVSLHSRRGAKAGVSAEPTTRTYDLNKPP
EFSFEKARVRKDSSEKKLITDALNKNQFLKRLDPQQIKDMVECMYGRNYQQGSYIIKQGEKGNHIFVLA
GRLEVFQGEKLLSSIPMWTTFGELAILYNCTRASVKAITNVKTWALDREVFQNIIMRRTAQARDEQYRNF
LRSVSLKLNLPEDKLTKIIDCLEVEYYDKGDYIIREGEEGSTFFILAKGKVKVTQSTEGHDQPQLIKTLQ
KGEYFGEKALISDDVRSANIIAEENDVACLVIDRETFNQTVGTFEELQKYLEGYVANLNRDDEKRHAKRS
MSNWKLSKALSLEMIQLKEKVARFSSSPFQNLIIATLGVGGFGRVELVKVKNENVAFAMKCIKRRKHIV
DTKQQEHVYSEKRILEELCSPFIVKLYRTFKDNKYVYMLLEACLGGELWSILRDRGFSDFEPTSKFCVACV
TEAFDYLHRLGIYRDLKPENLILDAEGLKLVDFGFACKIGSGQKTWTFCGTPEYVAPEVILNKGHDFS
VDFWSLGIIVYELLTGNPPFSGVDQMMTYNLILKGIKMDFPKIRRPEDLIRRLCRQNPTERLGNLKN
GINDIKKHRWLNFGFNWGLKARSLPSPLQRELKGPIDHSYFDKYPPEKGMPPDELSGWDKDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	87.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_006250](#)

Locus ID: 5593

UniProt ID: [Q13237](#), [A0A140VJM3](#)

RefSeq Size: 3328

Cytogenetics: 4q21.21

RefSeq ORF: 2286

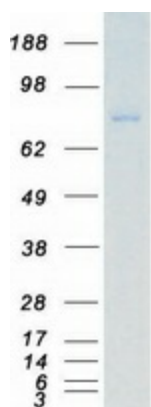
Synonyms: cGK2; cGKI; PKG2; PRKGR2

Summary: 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. [provided by RefSeq, May 2018]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Gap junction, Long-term depression, Olfactory transduction

Product images:



Coomassie blue staining of purified PRKG2 protein (Cat# [TP315879]). The protein was produced from HEK293T cells transfected with PRKG2 cDNA clone (Cat# [RC215879]) using MegaTran 2.0 (Cat# [TT210002]).