

## Product datasheet for PH315879

### CGK2 (PRKG2) (NM\_006259) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PRKG2 MS Standard C13 and N15-labeled recombinant protein (NP_006250)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215879
Predicted MW:	87.3 kDa
Protein Sequence:	>RC215879 representing NM_006259 Red=Cloning site Green=Tags(s)

MNGSVKPKHSHKHPDGHSGNLTTDALRNKVTLELERELRRKDAEIQEREYHLKELREQLSKQTVAIAELTE  
ELQNKCIQLNKLQDVVHMQGGSPQLQASPDKVPLEVHRKTSGLVSLHSRRGAKAGVSAEPTTRTYDLNKP  
EFSFEKARVRKDSSEKKLITDALNKNQFLKRLDPQQIKDMVECMYGRNYQQGSYI IKQGEPEGNHIFVLA  
GRLEVFQGEKLLSSIPMWTTFGELAILYNCTRTASVKAITNVKTWALDREVFQNIIMRRTAQAARDEQYRNF  
LRSVSLKLNLPEDKLTKI IDCLEVEYYDKGDYI IREGGEGSTFFILAKGKVKVTQSTEGHDQPQLIKTLQ  
KGEYFGEKALISDDVRSANIIEAENDVACLVIDRETFNQTVGTFEELQKYLEGYVANLNRDDEKRHAKRS  
MSNWKLSKALSLEMIQLKEKVARFSSSSPFQNLLEIATLGVGGFGRVELVKVKNENVAFAAMKCIRKKHIV  
DTKQQEHVYSEKRILEELCSPFIVKLYRTFKDNKYVYMLLEACLGGELWSILRDRGSFDEPTSKFCVACV  
TEAFDYLHRLGIIYRDLKPENLILDAEYGLKLVDFGFAGKIGSGQKTWTFCGTPEYVAPEVILNKGHDFS  
VDFWSLGIILVYELLTGNPPFSGVDQMMTYNLILKGIKMDFFPKITRRPEDLIRRLCRQNPTERLGNLKN  
GINDIKKRWLNNGFNWEGLKARSLPSPQLRELKGPIDHSYFDKYPPEKGMPPDEL SGWDKDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_006250</a></u>



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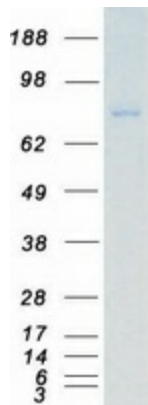
RefSeq Size:	3328
RefSeq ORF:	2286
Synonyms:	cGK2; cGKII; PKG2; PRKGR2
Locus ID:	5593
UniProt ID:	<a href="#">Q13237</a> , <a href="#">A0A140VJM3</a>
Cytogenetics:	4q21.21

**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]).