

Recombinant Human PRKG2 Protein, His-tagged

Cat. No. PRKG2-2623H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKG2 Protein (Leu453-Leu728) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu453-Leu728
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 61.8 kDa Accurate Molecular Mass: 62 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PRKG2 protein kinase, cGMP-dependent, type II [Homo sapiens (human)]
Official Symbol	PRKG2
Synonyms	PRKG2; protein kinase, cGMP-dependent, type II; cGMP-dependent protein kinase 2; cGKII; PRKGR2; cGK2; cGK 2; cGMP-dependent protein kinase II;
Gene ID	5593
mRNA Refseq	NM_006259
Protein Refseq	NP_006250

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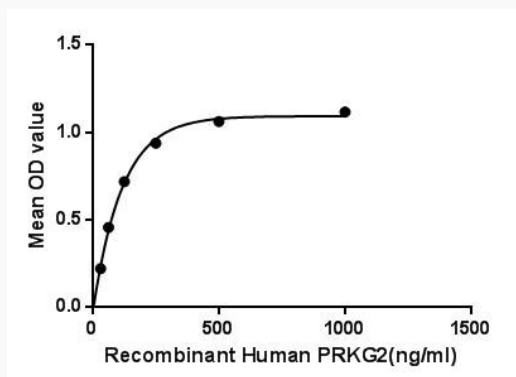
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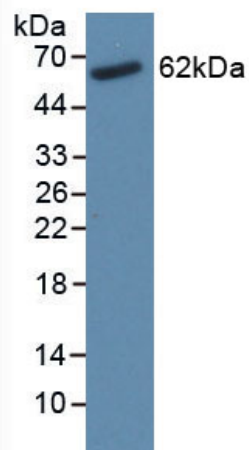
UniProt ID Q13237

Bioactivity



Binding activity

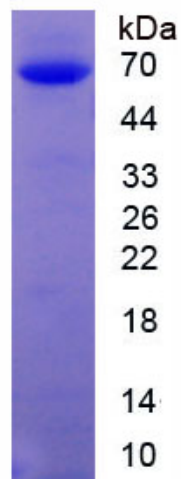
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