Recombinant Human PRKG2 Protein (M1-F762), Tag Free

Cat. No. PRKG2-0333H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKG2(M1-F762 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	M1-F762
Description	Crucial regulator of intestinal secretion and bone growth. Phosphorylates and activates CFTR on the plasma membrane. Plays a key role in intestinal secretion by regulating cGMP-dependent translocation of CFTR in jejunum. Acts downstream of NMDAR to activate the plasma membrane accumulation of GRIA1/GLUR1 in synapse and increase synaptic plasticity. Phosphorylates GRIA1/GLUR1 at Ser-863. Acts as regulator of gene expression and activator of the extracellular signal-regulated kinases MAPK3/ERK1 and MAPK1/ERK2 in mechanically stimulated osteoblasts. Under fluid shear stress, mediates ERK activation and subsequent induction of FOS, FOSL1/FRA1, FOSL2/FRA2 and FOSB that play a key role in the osteoblast anabolic response to mechanical stimulation.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

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
MIM	601591
UniProt ID	Q13237

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