

Recombinant Human PRKG2 (N-GST tag)

Cat No:HR2R1897

For research use only

Overview

Quantity	10 ?g
Gene Symbol	PRKG2
Gene ID	N/A
Accession	NM_006259
Alternative Name	cGKII, PRKGR2
Species	Human
Source	Insect cells
Description	PRKG2 is a member of the cGMP-dependent protein kinase family and is highly expressed in brain, lung, and intestinal mucosa. PRKG2 mediates intestinal secretion of water and electrolytes induced by the E. coli toxin STa and the intestinal peptide guanylin . Mice deficient in PRKG2 are resistant to E. coli STa and developed dwarfism which is caused by a severe defect in endochondral ossification at the growth plates. PRKG2 phosphorylates SOX9 and attenuates SOX9 function by inhibiting its nuclear entry. PRKG2 is a molecular switch that couples the cessation of proliferation and the start of hypertrophic chondrocyte differentiation through attenuating SOX9 function .
Functions	The specific activity of PRKG2 was determined to be 268 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	112
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.