

Recombinant Human GRK1 (N-GST tag)

Cat No:HR2R1469

For research use only

Overview

Quantity	10 ?g
Gene Symbol	GRK1
Gene ID	N/A
Accession	NM_002929
Alternative Name	GPRK1; RHOK; RK
Species	Human
Source	Insect cells
Description	GRK1 is a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinases. GRK1 mediates rapid desensitization of rod photoreceptors to light by catalyzing phosphorylation of the visual pigment rhodopsin which leads to its deactivation . Defects in GRK1 are known to cause Oguchi disease 2 (also known as stationary night blindness Oguchi type-2). GRK1 can be phosphorylated by PKA and this reduces the ability of GRK1 to phosphorylate rhodopsin in vitro . It is speculated that phosphorylation of GRK1 by PKA in vivo occurs in the dark when cAMP levels in photoreceptor cells are elevated.
Functions	The specific activity of GRK1 was determined to be 4.3 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	95
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.