

Recombinant Human GRK7 (N-GST tag)

Cat No:HR2R1474

For research use only

Overview

Quantity	10 ?g
Gene Symbol	GPRK7
Gene ID	N/A
Accession	NM_139209
Alternative Name	GPRK7
Species	Human
Source	Insect cells
Description	GRK7 is a member of the G protein-coupled receptor kinase subfamily and is a Ser/Thr protein kinase. GRK7 is specifically expressed in the retina and has been shown to phosphorylate cone opsins and initiate their deactivation . GRK7 catalyzes rhodopsin phosphorylation in a light-dependent manner. GRK7 co-localizes with GRK1 in human cone outer segments. PKA phosphorylates GRK7 at Ser(23) and Ser(36) in vitro and phosphorylation of GRK7 by PKA reduces the ability of GRK7 to phosphorylate rhodopsin in vitro . Since exposure to light causes a decrease in cAMP levels in rod cells, it is proposed that phosphorylation of GRK7 by PKA occurs in the dark.
Functions	The specific activity of GRK7 was determined to be 2.5 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	89
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.