

Recombinant Human GRK1

Cat. No. GRK1-27928TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GRK1 with an N terminal proprietary tag, mol wt: 95 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	563 amino acids
Description	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates rhodopsin and initiates its deactivation. Defects in GRK1 are known to cause Oguchi disease 2 (also known as stationary night blindness Oguchi type-2).
Molecular Weight	95.000kDa
Tissue specificity	Retina and pineal gland.
Biological activity	Specific activity: 4.3 nmol/min/mg
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium

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	chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily.Contains 1 AGC-kinase C-terminal domain.Contains 1 protein kinase domain.Contains 1 RGS domain.
GENE INFORMATION	
Gene Name	GRK1 G protein-coupled receptor kinase 1 [Homo sapiens]
Official Symbol	GRK1
Synonyms	GRK1; G protein-coupled receptor kinase 1; rhodopsin kinase , RHOK; rhodopsin kinase; GPRK1; RK;
Gene ID	6011
mRNA Refseq	NM_002929
Protein Refseq	NP_002920
MIM	180381
Uniprot ID	Q15835
Chromosome Location	13q34
Pathway	Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling

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pathway, conserved biosystem; Endocytosis, organism-specific biosystem;
Endocytosis, conserved biosystem; Phototransduction, organism-specific biosystem;

Function

ATP binding; G-protein coupled receptor kinase activity; nucleotide binding; protein
kinase activity; rhodopsin kinase activity;

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