

Recombinant Human G Protein-Coupled Receptor Kinase 1, GST-tagged

Cat. No. GRK1-1018H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human GRK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 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).
Applications	Kinase Assay; Western Blot
Molecular Weight	95 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	>95%

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Concentration	0.1 ug/ul
Specific Activity	4.3 nmol/min/mg
Sequences	Full length
Storage	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.
Pathways	Chemokine signaling pathway; Endocytosis; Visual signal transduction
GENE INFORMATION	
Gene Name	GRK1 G protein-coupled receptor kinase 1 [Homo sapiens]
Official Symbol	GRK1
Synonyms	GRK1; G protein-coupled receptor kinase 1; RK; RHOK; GPRK1; rhodopsin kinase
Gene ID	6011
mRNA Refseq	NM_002929
Protein Refseq	NP_002920
MIM	180381
UniProt ID	Q15835
Chromosome Location	13q34

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Function

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

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