Recombinant Human G Protein-Coupled Receptor Kinase 7, GST-tagged

Cat. No. GRK7-1021H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human GRK7 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 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.
Applications	Kinase Assay; Western Blot
Molecular Weight	89 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%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	0.1 ug/ul
Specific Activity	2.5 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; Phototransduction; Visual signal transduction: Cones

GENE INFORMATION

Gene Name	GRK7 G protein-coupled receptor kinase 7 [Homo sapiens]
Official Symbol	GRK7
Synonyms	GRK7; G protein-coupled receptor kinase 7; GPRK7; G protein-coupled receptor kinase 7; OTTHUMP00000214002; g protein-coupled receptor kinase GRK7
Gene ID	131890
mRNA Refseq	NM_139209
Protein Refseq	NP_631948
MIM	606987
UniProt ID	Q8WTQ7

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	3q24
Function	ATP binding; G-protein coupled receptor kinase activity; nucleotide binding; rhodopsin kinase activity; signal transducer activity

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA