

GRK1 recombinant protein

GRK1, Active

CATALOG # AAA73914	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

GRK1; Active; GPRK1; RHOK; RK; GRK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for GRK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for GRK1 recombinant protein	Full-length recombinant human GRK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_002929. 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 (1). 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 (2). It is speculated that phosphorylation of GRK1 by PKA in vivo occurs in the dark when cAMP levels in photoreceptor cells are elevated.
Product Categories/Family for GRK1 recombinant protein	Protein Kinases ; Angiogenesis ; Cancer ; Cardiovascular Disease ; ERK/MAPK Pathway ; Invasion/Metastasis ; Metabolic Disorder ; Neurobiology ; Ser/Thr Kinases
References	- Khani, S C. et al: Characterization and chromosomal localization of the gene for human rhodopsin kinase. Genomics 35: 571-576, 1996. - Horner, T J. et al: Phosphorylation of GRK1 and GRK7 by cAMP-dependent protein kinase attenuates their enzymatic activities. J Biol Chem. 2005 Aug 5;280(31):28241-50.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_002929
Molecular Weight	~95kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/grk1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73914>