

GRK2 recombinant protein

GRK2, Active

CATALOG # AAA73215	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

GRK2; Active; ADRBK1; BARK1; BETA-ARK1; FLJ16718; GRK2 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 GRK2 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 GRK2 recombinant protein	Full-length recombinant human GRK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001619. GRK2 or ADRBK1 is a ubiquitous cytosolic enzyme that specifically phosphorylates the activated form of the beta-adrenergic and related G protein-coupled receptors. GRK2 phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization. Abnormal coupling of beta-adrenergic receptor to G protein is involved in the pathogenesis of the failing heart (1). RAF kinase inhibitor protein RKIP is a physiologic inhibitor of GRK2 (2). After stimulation of G protein-coupled receptors, RKIP dissociates from its known target, RAF1 to associate with GRK2 and block its activity.
Product Categories/Family for GRK2 recombinant protein	Protein Kinases ; Angiogenesis ; Cancer ; Cardiovascular Disease ; ERK/MAPK Pathway ; Invasion/Metastasis ; Metabolic Disorder ; Neurobiology ; Ser/Thr Kinases
References	1. Rockman, H. A. et al: Expression of a beta-adrenergic receptor kinase 1 inhibitor prevents the development of myocardial failure in gene-targeted mice. Proc. Nat. Acad. Sci. 95: 7000-7005, 1998. 2. Lorenz, K. et al: Protein kinase C switches the Raf kinase inhibitor from Raf-1 to GRK-2. Nature 426: 574-579, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_001619
Molecular Weight	~102kDa

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/grk2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73215>