# Recombinant Human GRK6/GPRK6 Protein (His &GST Tag)

**Catalog Number: PKSH030350**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

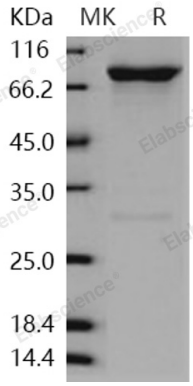
## Description

| | |
|---|---|
| **Species** | Human |
| **Source** | Baculovirus-Insect Cells-derived Human GRK6/GPRK6 protein Met 1-Arg 589, with an N-terminal His & GST |
| **Calculated MW** | 95.1 kDa |
| **Observed MW** | 85 kDa |
| **Accession** | P43250-2 |
| **Bio-activity** | The specific activity was determined to be 7 nmol/min/mg using casein as substrate. |

## Properties

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|---|---|
| **Purity** | > 93 % as determined by reducing SDS-PAGE. |
| **Concentration** | Subject to label value. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| **Shipping** | This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C. |
| **Formulation** | Supplied as sterile solution of 20mM Tris, 500mM NaCl, 2mM GSH, 0.5mM PMSF, pH 7.4 |

## Data




> 93 % as determined by reducing SDS-PAGE.

## Background

G protein-coupled receptor kinase 6, also known as G protein-coupled receptor kinase GRK6, GRK6 and GPRK6, is a lipid-anchor protein which belongs to theprotein kinase superfamily, AGC Ser/Thr protein kinase family and GPRK subfamily. GRK6 / GPRK6 contains oneAGC-kinase C-terminal domain, oneprotein kinase domain and oneRGS domain. This protein phosphorylates the activated forms of G protein-coupled receptors thus initiating their deactivation. Several transcript variants encoding different isoforms have been described. GRK6 / GPRK6 is widely expressed. GRK6 / GPRK6 silencing causes suppression of signal transducer and activator of transcription 3 (STAT 3) phosphorylation associated with reduction in MCL1 levels and phosphorylation, illustrating a potent mechanism for the cytotoxicity of GRK6 inhibition in multiple myeloma (MM) tumor cells. GRK6 also appears to be involved in responses to morphine. Inhibition of GRK6 represents a uniquely targeted novel therapeutic strategy in human multiple myeloma.


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