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

Catalog Number: PKSH030350

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

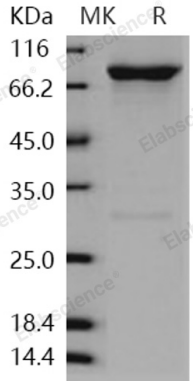
Description

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

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

Gprotein-coupled receptor kinase 6, also known as Gprotein-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 (STAT3) 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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