

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

Catalog Number:PKSH030350

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

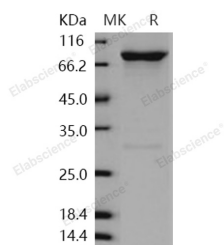
Description

Synonyms	GPRK6
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Arg 589
Accession	P43250-2
Calculated Molecular Weight	95.1 kDa
Observed molecular weight	85 kDa
Tag	N-His-GST
Bioactivity	The specific activity was determined to be 7 nmol/min/mg using casein as substrate.

Properties

Purity	> 93 % as determined by reducing SDS-PAGE.
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
Reconstitution	Not Applicable

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 the protein kinase superfamily, AGC Ser/Thr protein kinase family and GPRK subfamily. GRK6 / GPRK6 contains one AGC-kinase C-terminal domain, one protein kinase domain and one RGS 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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