



Recombinant Protein Technical Manual

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

RPES2620

Product Data:

Product SKU: RPES2620

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: P43250-2

Protein Information:

Molecular Mass: 95.1 kDa

AP Molecular Mass: 85 kDa

Tag: N-His & GST

Bio-activity: The specific activity was determined to be 7 nmol/min/mg using casein as substrate.

Purity: > 93 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 20mM Tris, 500mM NaCl, 2mM GSH, 0.5mM PMSF, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: GPRK6

Immunogen Information:

Sequence: Met 1-Arg 589

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.