

Active Recombinant Human GRK5, GST-tagged

Cat. No. GRK5-1410H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human GRK5 was expressed by baculovirus in Sf9 insect cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	GRK5 is a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. It phosphorylates the activated forms of G protein-coupled receptors thus initiating their deactivation. GRK5 plays a role in regulating the motility of polymorphonuclear leukocytes (PMNs). Desensitization of G protein-coupled receptors regulates the number of polymorphonuclear leukocytes (PMNs), as well as their motility and ability to stop upon contact with pathogens or target cells, and this desensitization is mediated by GRK5.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
Bio-activity	40 nmol/min/mg
Molecular Mass	~95 kDa

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Purity	>90%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	GRK5 G protein-coupled receptor kinase 5 [Homo sapiens]
Official Symbol	GRK5
Synonyms	GRK5; G protein-coupled receptor kinase 5; GPRK5; FP2025; g protein-coupled receptor kinase GRK5; FLJ39780;
Gene ID	2869
mRNA Refseq	NM_005308
Protein Refseq	NP_005299
MIM	600870
UniProt ID	P34947
Chromosome Location	10q24-qter
Pathway	Alpha-synuclein signaling, organism-specific biosystem; Calcium Regulation in the

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Cardiac Cell, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; G alpha (q) signalling events, organism-specific biosystem;

Function

ATP binding; G-protein coupled receptor kinase activity; nucleotide binding; phospholipid binding; protein binding; protein kinase C binding; protein serine/threonine kinase activity;

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