

GRK6 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P75799
Synonyms:	G protein-coupled receptor kinase 6; GRK6; GPRK6
Species:	Human
Source:	Sf9 insect cells
Accession:	P43250-2 (M1-R589)
Gene ID:	2870
Molecular Weight:	Approximately 85 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 2 mM GSH, 0.5 mM PMSF, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	GRK6 is a protein that selectively phosphorylates activated forms of G protein-coupled receptors, initiating downstream processes such as beta-arrestin-mediated receptor desensitization, internalization, and signaling events crucial for their functional downregulation. It is implicated in the desensitization of D2-like dopamine receptors in the striatum and the chemokine receptor CXCR4, playing a pivotal role in CXCL12-induced cell chemotaxis. Additionally, GRK6 has been shown to phosphorylate rhodopsin (RHO) in vitro and a non G-protein-coupled receptor, LRP6, during Wnt signaling, suggesting its involvement in diverse cellular pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

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