

GRK2 Protein, Mouse, Recombinant (His & SUMO)

General Information

Synonyms:	G-protein-coupled receptor kinase 2;Beta-adrenergic receptor kinase 1;Beta-ARK-1;Adrbk1;Grk2
Protein Construction:	1-689 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q99MK8
Molecular Weight:	95.6 kDa (predicted)
AA Sequence:	MADLEAVLADVSYLMAMEKSKATPAARASKILLPEPSIRSVMQKYLEDRGEVTFEKIFSQKLGYLLFRDFCLN HLEEAKPLVEFYEEIKKYEKLETEEERVVRSREIFDSYIMKELLACSHPFKSNATEHVQGHVKKQVPPDLFQPYI EEICQNLRGDVFQKFIESDKFTRFCQWKNVELNIHLTMNDFSVHRIIGRGGFGEVYGCRKADTGKMYAMKCLD KKRIKMKQGETLALNERIMLSLVSTGDCPFIVCMSYAFHTPKLSFILDLMNGGDLHYHLSQHGVSFEADMRF YAAEIIILGLEHMHNRFFVYRDLKPANILLDEHGHVRISDLGLACDFSKKRPHASVGTGHGYMAPEVLQKGVAYD SSADWFSLGCMLFKLLRGHSPFRQHKTDKHEIDRMTLTMAVELPDSFSPELRSLLLEGLLQRDVRRLGCLGR GAQEVKESPFRRSLDWQMVFLQKYPPLIPPRGEVNAADAFIGSFEEDTKGIKLLDSDQELYRNFPLTISER WQQEVAETVFDTINAETDRLEARKKAKNKQLGHEEDYALGKDCIVHGYMSKMGPNFLTQWQRRYFYLPNR LEWRGEGEAPQSLLTMEEIQSVEETQIKERKCLLLKIRGGKQFVLQCSDPELVQWKKELRDAYREAQQLVQR VPKMKNKPRSPVVELSKVPLIQRGSANGL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them. Key regulator of LPAR1 signaling. Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor. Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner. Positively regulates ciliary smoothened (SMO)-dependent Hedgehog (Hh) signaling pathway by facilitating the trafficking of SMO into the cilium and the stimulation of SMO activity. Inhibits relaxation of airway smooth muscle in response to blue light.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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