

Recombinant Full Length Human GRK2 Protein, C-Flag-tagged

Cat. No. GRK2-1271HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GRK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the G protein-coupled receptor kinase family of proteins. The encoded protein phosphorylates the beta-adrenergic receptor as well as a wide range of other substrates including non-GPCR cell surface receptors, and cytoskeletal, mitochondrial, and transcription factor proteins. Data from rodent models supports a role for this gene in embryonic development, heart function and metabolism. Elevated expression of this gene has been observed in human patients with heart failure and Alzheimer's disease.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	79.4 kDa
AA Sequence	MADLEAVLADVSYLMAMEKSKATPAARASKKILLPEPSIRSVMQKYLEDRGEVTFEKI FSQKLGYYLLFRD FCLNHLEEARPLVEFYEEIKKYEKLETEEERVARSRIFDSYIMKE LLACSHPFSSKATEHVQGHGKKQ VPPDLFQPYIEEICQNLRGDVFQKFIESDKFTR FCQWKNVELNIHLTMNDFSVHRIIGRGGFGEVYGCRK ADTGKMYAMKCLDKKRIKM KQGETLALNERIMLSLVSTGDCPFIVCMSYAFHTPDKLSFILDLMNGGDLH YHLSQH GVFSEADMRFYAAEIIILGLEHMHNRVYVYRDLKPANILLDEHGHVRISDLGLACDFSK

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KKPHAS VGTHGYMAPEVLQKGVAYDSSADWFSLGCMFLKLLRGHSPFRQHKTCD
 KHEIDRMTLTMAVELPDSFSPE LRSLLLEGLLQRDVNRRLGCLGRGAQEVKESPFFR
 SLDWQMVFLLQKYPPPLIPPRGEVNAAADAFDIGSFDE EDTKGIKLLDSDQELYRNFPL
 TISERWQQEVAETVFDTINAETDRLEARKKAKNKQLGHEEDYALGKDCI MHGYMSK
 MGNPFLTQWQRRYFYLFNRLWRGEGEAPQSLLTMEEIQSVEETQIKERKCLLLKI
 RGGKQF
 ILQCSDPELVQWKELRDYREAQQLVQRPKMKNKPRSPVVELSKVPLVQRGS
 ANGLSGPSGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Chemokine signaling pathway, Endocytosis
Full Length	Full L.

GENE INFORMATION

Gene Name GRK2 G protein-coupled receptor kinase 2 [Homo sapiens (human)]

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Official Symbol	GRK2
Synonyms	BARK1; ADRBK1; BETA-ARK1
Gene ID	156
mRNA Refseq	NM_001619.5
Protein Refseq	NP_001610.2
MIM	109635
UniProt ID	P25098

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