Recombinant Human GK, GST-tagged

Cat. No. GK-13284H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GK protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-357a.a.
Description	Rho GTPases alternate between an inactive GDP-bound state and an active GTP-bound state, and GEFs facilitate GDP/GTP exchange. This gene encodes a guanine nucleotide exchange factor (GEF) which interacts with Rho GTPases involved in contraction of vascular smooth muscles, regulation of responses to angiotensin II and lens cell differentiation. Multiple transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	GK glycerol kinase [Homo sapiens]

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Official Symbol	GK
Synonyms	glycerol kinase; 4289; Ensembl:ENSG00000198814; glycerol kinase;glycerokinase;ATP:glycerol 3-phosphotransferase; 2.7.1.30; GK1; GKD
Gene ID	2710
mRNA Refseq	NM_000167.5
Protein Refseq	NP_000158.1
MIM	300474
UniProt ID	B4DH54
Chromosome Location	Xp21.3
Pathway	Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem;
Function	ATP binding; glycerol kinase activity; glycerol kinase activity; protein binding;

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