

# Recombinant Human Serum/Glucocorticoid Regulated Kinase 1, His-tagged

**Cat. No.** SGK1-1346H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human SGK1 protein was expressed with N-terminal His-tag in High-Five cells using baculovirus expression system and purified by using conventional chromatography techniques. MW: 44.5 kDa.
<b>Species</b>	Human
<b>Source</b>	Hi-5 Insect Cells
<b>ProteinLength</b>	60-431aa
<b>Description</b>	SGK1 is a serine/threonine protein kinase and a member of the AGC subfamily, which includes protein kinases A, G, and C. This protein plays an important role in activating certain potassium, sodium and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol 0.2M NaCl, 2mM DTT, 0.1mM PMSF.
<b>Molecular Mass</b>	44.5 kDa (393aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MISQPQEPEL MNANPSPPPS PSQQINLGPS SNPHAKPSDF HFLKVIKGS FGKVLARHK AEEVFYAVKV LQKKAILKKK EEKHIMSERN VLLKNVKHPF LVGLHFSFQT ADKLYFVLDY INGGELFYHL

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QRERCFLPR ARFYAAEIAS ALGYLHSLNI VYRDLKPENI LLDSQGHIVL  
 TDFGLCKENI EHNSTTSTFC GTPEYLAPEV LHKQPYDRTV DWWCLGAVLY  
 EMLYGLPPFY SRNTAEMYDN ILNKPLQLKP NITNSARHLL EGLLQKDRTK  
 RLGAKDDFME IKSHVFFSLI NWDDLINKKI TPPFNPVSG PNDLRHFDPE  
 FTEEPVPNSI GKSPDSVLVT ASVKEAAEAF LGFSYAPPTD SFL

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [SGK1 serum/glucocorticoid regulated kinase 1 \[ Homo sapiens \]](#)

**Official Symbol** SGK1

**Synonyms** SGK1; serum/glucocorticoid regulated kinase 1; serum/glucocorticoid regulated kinase , SGK; serine/threonine-protein kinase Sgk1; serine/threonine protein kinase SGK; serum/glucocorticoid-regulated kinase 1; SGK;

**Gene ID** [6446](#)

**mRNA Refseq** [NM\\_001143676](#)

**Protein Refseq** [NP\\_001137148](#)

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<b>MIM</b>	602958
<b>UniProt ID</b>	O00141
<b>Chromosome Location</b>	6q23
<b>Pathway</b>	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Class I PI3K signaling events, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; IL-6 Signaling Pathway, organism-specific biosystem; Insulin Pathway, organism-specific biosystem;
<b>Function</b>	ATP binding; calcium channel regulator activity; chloride channel regulator activity; nucleotide binding; potassium channel regulator activity; protein serine/threonine kinase activity; sodium channel regulator activity;

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