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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Hi-5 Insect Cells
ProteinLength	60-431aa
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol 0.2M NaCl,2mM DTT,0.1mM PMSF.
Molecular Mass	44.5 kDa (393aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MISQPQEPEL MNANPSPPPS PSQQINLGPS SNPHAKPSDF HFLKVIGKGS FGKVLLARHK AEEVFYAVKV LQKKAILKKK EEKHIMSERN VLLKNVKHPF LVGLHFSFQT ADKLYFVLDY INGGELFYHL

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	QRERCFLEPR ARFYAAEIAS ALGYLHSLNI VYRDLKPENI LLDSQGHIVL TDFGLCKENI EHNSTTSTFC GTPEYLAPEV LHKQPYDRTV DWWCLGAVLY EMLYGLPPFY SRNTAEMYDN ILNKPLQLKP NITNSARHLL EGLLQKDRTK RLGAKDDFME IKSHVFFSLI NWDDLINKKI TPPFNPNVSG 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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MIM	602958
UniProt ID	O00141
Chromosome Location	6q23
Pathway	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;
Function	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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