

## Recombinant Human SGK1 Protein, His-tagged

**Cat. No.** SGK1-22H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SGK1 Protein is produced by E. coli expression system. This protein is fused with a His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	60-431 aa
<b>Description</b>	SGK1, also known as serum-and glucocorticoid-regulated kinase, 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. It is activated in vitro by 3-phosphoinositide-dependent protein kinase-1 (PDK-1) and in vivo in response to signals that activate phosphatidylinositol (PI) 3-kinase. 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.
<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

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<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MISQPQEPEL MNANPSPPPS PSQQINLGPS          SNPHAKPSDF HFLKVIGKGS FGKVLARHK AEEVFYAVKV LQKKAILKKK          EEKHIMSERN VLLKNVKHPFLVGLHFSFQT ADKLYFVLDY INGGELFYHL          QRERCFLPR ARFYAAEIAS ALGYLHSLNI VYRDLKPENI LLDSQGHIVL          TDFGLCKENI EHNSTTSTFC GTPEYLAPEV LHKQPYDRTVDWWCLGAVLY          EMLYGLPPFY SRNTAEMYDN ILNKPLQLKP NITNSARHLL EGLLQKDRTK          RLGAKDDFME IKSHVFFSLI NWDDLINKKI TPPFNPVSG PNDLRHFDPE          FTEEPVNSI GKSPDSVLVT ASVKEAAEAF LGFSYAPPTD SFL</p>
<b>Purity</b>	> 90% by SDS - PAGE
<b>Notes</b>	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
<b>Storage</b>	Can be stored at +2 centigrade to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	SGK1 serum/glucocorticoid regulated kinase 1 [ Homo sapiens ]
<b>Official Symbol</b>	SGK1
<b>Synonyms</b>	SGK1; serum/glucocorticoid regulated kinase 1; serum/glucocorticoid regulated kinase , SGK; serine/threonine-protein kinase Sgk1; SGK;
<b>Gene ID</b>	6446



mRNA Refseq [NM\\_001143676](#)

Protein Refseq [NP\\_001137148](#)

MIM [602958](#)

UniProt ID [O00141](#)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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