

Recombinant Human SGK1 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human SGK1 Protein is produced by E. coli expression system. This protein is fused with a His tag.
Species	Human
Source	E.coli
ProteinLength	60-431 aa
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.2M NaCl, 2mM DTT, 0.1mM PMSF.
Molecular Mass	44.5 kDa

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MISQPQEPEL MNANPSPPPS PSQQINLGPS SNPHAKPSDF HFLKVIGKGS FGKVLLARHK AEEVFYAVKV LQKKAILKKK EEKHIMSERN VLLKNVKHPFLVGLHFSFQT ADKLYFVLDY INGGELFYHL QRERCFLPR ARFYAAEIAS ALGYLHSLNI VYRDLKPENI LLDSQGHIVL TDFGLCKENI EHNSTTSTFC GTPEYLAPEV LHKQPYDRTVDWWCLGAVLY EMLYGLPPFY SRNTAEMYDN ILNKPLQLKP NITNSARHLL ELLQKDRTK RLGAKDDFME IKSHVFFSLI NWDDLINKKI TPPFNPVSG PNDLRHFDPE FTEEPVPNSI GKSPDSVLVT ASVKEAAEAF LGFSYAPPTD SFL
Purity	> 90% by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	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.
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; SGK;
Gene ID	6446

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mRNA Refseq	NM_001143676
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Protein Refseq	NP_001137148
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MIM	602958
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UniProt ID	O00141
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3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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