

**AR50057PU-S****Human SGK1 / SGK (60-431, His-tag) - Purified**

<b>Alternate names:</b>	Serine/threonine-protein kinase Sgk1, Serum/glucocorticoid-regulated kinase 1
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	0.25 mg/ml (determined by Bradford assay)
<b>Background:</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.
<b>Uniprot ID:</b>	<a href="#">O00141</a>
<b>NCBI:</b>	<a href="#">NP_005618</a>
<b>GeneID:</b>	<a href="#">6446</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >90% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.2M NaCl, 2mM DTT, 0.1mM PMSF
<b>Description:</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. <b>AA Sequence:</b> MGSSHHHHHH SSGLVPRGSH MISQPQEPPEL MNANSPPPPS PSQQINLGPS SNPHAKPSDF HFLKVIKGS FGKVLARHK AEEVFYAVKV LQKKAILKKK EEKHIMSERN VLLKNVKHPF LVGLHFSFQT ADKLYFVLDY INGGELFYHL QRERCFLEPR ARFYAAEIAS ALGYLHSLNI VYRDLKPENI LLDSQGHIVL TDFGLCKENI EHNSTTSTFC GTPEYLPEV LHKQPYDRIV DWWCLGAVLY EMLYGLPPFY SRNTAEMYDN ILNKPLQLKP NITNSARHLL EGLLQKDRTK RLGAKDDFME IKSHVFFSLI NWDDLINKKI TPPFNPNVSG PNDLRHFDPPE FTEEPVPSNI GKSPDSVLVT ASVKEAAEAF LGFSYAPPTD SFL <b>Molecular weight:</b> 44.5 kDa (393aa)
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Maiyar A.C. et al. (1996) J. Biol. Chem.. 271: 12414-12422. Brunet A. et al. (2001) Mol. Cell. Biol. 21:952-65

Pictures:

