

**SGK1, 60-431 aa, Human, His tag, HI-5**

**Cat.NO.: TP03920**

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3th Edition

**Synonyms:** Serine/threonine-protein kinase Sgk1 isoform 1.

**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 Weight:** 44.5 kDa (393aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMISQPQPELMNANPSPPPSPSQINLGPSSNPHAKPSDFHFLKVIKGSFGKVL  
LARHKAEEVFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRE  
RCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDGFLCKENIEHNSTTSTFCGTPEYLAPEVLH  
KQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLLEGLLQKDRTKRLGAKDDF  
MEIKSHVFFSLINWDDLKINKITPPFNPVSGPNDLRHFDPEFTEEPVPNSIGKSPDSVLVTASVKEAAEAFLGFSYA  
PPTDSFL

**Purity:** > 95% by HPLC

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

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.