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## Product Data Sheet

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Product Name: SGK1 Human  
 Cat. No.: GP22624  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine/threonine-protein kinase Sgk1; Serum/glucocorticoid-regulated kinase 1; SGK1; SGK.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MISQPQEPEL MNANSPPPS PSQQINLGPS SNPHAKPSDF HFLKVIKGS FGKVLLARHK AEEVFYAVKV LQKKAILKKK EEKHIMSERN VLLKNVKHPF LVGLHFSFQT ADKLYFVLDY INGGELFYHL QRERCFLEPR ARFYAAEIAS ALGYLHSLNI VYRDLKPENI LLDSQGHIVL TDFGLCKENI EHNSTTSTFC GTPEYLAPEV LHKQPYDRTV DWWCLGAVLY EMLYGLPPFY SRNTAEMYDN ILNKPLQLKP NITNSARHLL ELLQKDRTK RLGAKDDFME IKSHVFFSLI NWDDLINKKI TPPFNPVSG PNDLRHFDPE FTEEPVPSI GKSPDSVLVT ASVKEAAEAF LGFSYAPPTD SFL.		
Formulation	SGK1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 30% glycerol, 0.2M NaCl, 2mM DTT and 0.1mM PMSF.		

### Introduction

Serum-and glucocorticoid-regulated kinase (SGK1) is a serine/threonine protein kinase and a member of the AGC6 subfamily, which includes protein kinases A, G, and C. The SGK1 protein has an imperative role in activating specific potassium, sodium and chloride channels, suggesting a participation in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. SGK1 is activated in vitro by PDK-1 (3-phosphoinositide-dependent protein kinase-1) and in vivo in reaction to signals which activate phosphatidylinositol (PI) 3-kinase.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SGK1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 393 amino acids (60-431 a.a.) and having a molecular mass of 44.5kDa. SGK1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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