

Recombinant human SGK1 protein

Catalog Number: ATGP1232

PRODUCT INFORMATION

Expression system

E.coli

Domain

60-431aa

UniProt No.

O00141

NCBI Accession No.

NP_005618

Alternative Names

Serine/threonine-protein kinase Sgk1 isoform 1

PRODUCT SPECIFICATION

Molecular Weight

44.5 kDa (393aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.2M NaCl, 2mM DTT, 0.1mM PMSF

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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High-Five cells using baculovirus expression system and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MISQPQEPEL MNANPSPPPS PSQQINLGPS SNPHAKPSDF HFLKVIGKGS FGKVLARHK
AEEVFYAVKV LQKKAILKKK EEKHMSERN VLLKNVKHPF LVGLHFSFQT ADKLYFVLDY INGGELFYHL QRERCFLEPR
ARFYAAEIAS ALGYLHSLNI VYRDLKPENI LLDSQGHIVL TDFGLCKENI EHNSTTSTFC GTPEYLAPEV LHKQPYDRTV
DWWCLGAVLY EMLYGLPPFY SRNTAEMYDN ILNKPLQLKP NITNSARHLL ELLQKDRTK RLGAKDDFME IKSHVFFSLI
NWDDLINKKI TPPFNPNVSG PNDLRHFDPE FTEEPVNSI GKSPDSVLVT ASVKEAAEAF LGFSYAPPTD SFL

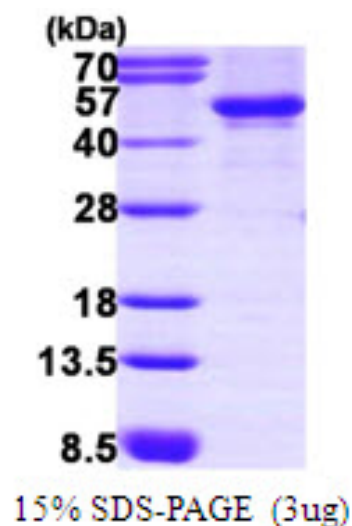
General References

Maiyar A.C. et al. (1996) J. Biol. Chem.. 271: 12414-12422.

Brunet A. et al. (2001) Mol. Cell. Biol. 21:952-65

DATA

SDS-PAGE



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