Recombinant human SGK1 protein

Catalog Number: ATGP1232

PRODUCT INFORMATION

Expression system
Baculovirus

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

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

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 vitroby 3-

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phosphoinositide-dependent protein kinase-1 (PDK-1) and in vivoin response to signals that activate phosphatidylinositol (PI) 3-kinase. Recombinant human SGK1, fused to His-tag at N-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

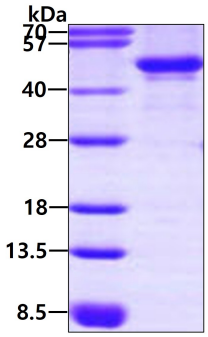
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General References

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.