

## Recombinant Mouse Sgk1 protein, His-tagged

Cat. No. Sgk1-145M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Sgk1(Ser145~Asp386) fused with His tag at the N-terminus was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser145~Asp386
<b>Description</b>	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. This enzyme is activated by protein phosphorylation and degraded via the ubiquitination and proteasome pathway. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene was identified on chromosome 12.
<b>Form</b>	20mM Tris, 150mM NaCl,pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)
<b>Purity</b>	> 97%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Sgk1 serum/glucocorticoid regulated kinase 1 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Sgk1</a>
<b>Synonyms</b>	SGK1; serum/glucocorticoid regulated kinase 1; serine/threonine-protein kinase Sgk1; serum/glucocorticoid-regulated kinase 1; serum and glucocorticoid-dependent protein kinase; Sgk;
<b>Gene ID</b>	<a href="#">20393</a>
<b>mRNA Refseq</b>	<a href="#">NM_001161845</a>
<b>Protein Refseq</b>	<a href="#">NP_001155317</a>
<b>UniProt ID</b>	<a href="#">Q9WVC6</a>
<b>Chromosome Location</b>	10; 10 A3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA




**Pathway**

Aldosterone-regulated sodium reabsorption, organism-specific biosystem;  
Aldosterone-regulated sodium reabsorption, conserved biosystem; IL-6 signaling  
Pathway, organism-specific biosystem; Insulin Signaling, organism-specific  
biosystem; PluriNetWork, organism-specific biosystem;

**Function**

3-phosphoinositide-dependent protein kinase binding; ATP binding; cofactor binding;  
kinase activity; nucleotide binding; protein binding; protein kinase activity; protein  
serine/threonine kinase activity; tau protein binding; transferase activity; transferase  
activity, transferring phosphorus-containing groups;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA