Recombinant Mouse Sgk1 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Sgk1(Ser145~Asp386) fused with His tag at the N-terminus was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ser145~Asp386
Description	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.
Form	20mM Tris, 150mM NaCl,pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 97%

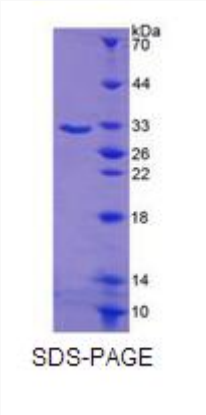
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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed.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

GENE INFORMATION

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

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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;
	 SDS-PAGE

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