

Recombinant Human SGK1

Cat. No. SGK1-30970TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 60-431 of Human SGK1 with N-terminal proprietary tag expressed in a Baculovirus infected Sf9 cell expression system, MWt 72kDa.
Species	Human
ProteinLength	60-431 a.a.
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. High levels of expression of this gene may contribute to conditions such as hypertension and diabetic nephropathy. Several alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Tissue specificity	Expressed in most tissues with highest levels in the pancreas, followed by placenta, kidney and lung. Isoform 2 is strongly expressed in brain and pancreas, weaker in heart, placenta, lung, liver and skeletal muscle.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.Contains 1 AGC-kinase C-terminal domain.Contains 1 protein kinase domain.
GENE INFORMATION	
Gene Name	SGK1 serum/glucocorticoid regulated kinase 1 [Homo sapiens]
Official Symbol	SGK1
Synonyms	SGK1; serum/glucocorticoid regulated kinase 1; serum/glucocorticoid regulated kinase , SGK; serine/threonine-protein kinase Sgk1;
Gene ID	6446
mRNA Refseq	NM_001143676
Protein Refseq	NP_001137148
MIM	602958
Uniprot ID	O00141
Chromosome Location	6q23
Pathway	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Class I PI3K signaling events, organism-specific biosystem; FoxO family signaling, organism-

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specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem;

Function

ATP binding; calcium channel regulator activity; chloride channel regulator activity; nucleotide binding; potassium channel regulator activity;

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