

Recombinant Human Serum/Glucocorticoid Regulated Kinase 2

Cat. No. SGK2-659H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	SGK2 is a member of the serum- and glucocorticoid-induced kinases (SGK) which are serine-threonine kinases and belong to the "AGC" kinase subfamily, which includes protein kinases A, G, and C, and its catalytic domain is most similar to protein kinase B (PKB). SGK2, like the other two isoforms SGK1 and SGK3, is stimulated by insulin and insulin-like growth factor-1 (IGF-1), and has been shown to enhance Na(+)/K(+)-ATPase activity in a variety of cells.
Application	Kinase activity is measured as the molar amount of phosphate incorporated into the Akt/SGK substrate peptide (RPRAATF), per minute per mg protein at 30 °C using a final concentration of 50 µM [32P] ATP.
Biochem/physiol Actions	SGK2 is a member of the serum- and glucocorticoid-induced kinases (SGK) which are serine-threonine kinases and belong to the "AGC" kinase subfamily, which includes protein kinases A, G, and C and has SGK2 enhances Na ⁺ /K ⁺ -ATPase activity in a variety of cells. In addition, SGK2 mimics the function of SGK1 and SGK3 and participates in the regulation of renal epithelial Na ⁺ channel ENaC activity.
Physical Form	Supplied at 50 µL in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM dithiothreitol

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	(DTT), 0.1 mM EGTA, and 30% glycerol.
Assay	≥75% (SDS-PAGE).
Form	aqueous glycerol solution.
Mol Wt	protein apparent mol wt ~66 kDa.
Storage Temp	-70°C.

GENE INFORMATION

Gene Name	SGK2 serum/glucocorticoid regulated kinase 2 [Homo sapiens]
Synonyms	SGK2; serum/glucocorticoid regulated kinase 2; H-SGK2; dJ138B7.2; OTTHUMP00000031705; EC 2.7.11.1; OTTHUMP00000031702; OTTHUMP00000031703; Serum/glucocorticoid-regulated kinase 2; Serine/threonine-protein kinase Sgk2
Gene ID	10110
mRNA Refseq	NM_016276
Protein Refseq	NP_057360
MIM	607589
UniProt ID	Q9HBY8
Chromosome Location	20q13.2

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Function

ATP binding; nucleotide binding; potassium channel regulator activity; protein serine/threonine kinase activity; sodium channel regulator activity; transferase activity

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