

Recombinant Human SIK, GST-tagged

Cat. No. SIK1-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIK (1-303) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-303 a.a.
Description	SIK is a protein kinase that is involved in regulating AMPK-related kinases. SIK may mediate the physiological effects of LKB1, including its tumour suppressor function. SIK is also involved in signaling by various proteins like STRAD, NUA1, NUA2, BRSK1, BRSK2, QIK, QSK, SIK, MARK1, MARK2, MARK3, MARK4 and MELK that are related to AMPK. Activation of SIK1 by phosphorylation on thr322 can lead to an increase in the catalytic activity of sodium/potassium ATPase alpha subunit at the plasma membrane. This results in an increase in intracellular sodium in intact mammalian cells.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~61 kDa
Applications	Kinase Assay, Western Blot

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Storage

Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION
Gene Name

[SIK1 salt-inducible kinase 1 \[Homo sapiens \]](#)

Official Symbol

SIK1

Synonyms

SIK1; salt-inducible kinase 1; SNF1 like kinase , SNF1LK; serine/threonine-protein kinase SIK1; msk; myocardial SNF1 like kinase; SIK-1; SNF1-like kinase; myocardial SNF1-like kinase; salt-inducible protein kinase 1; serine/threonine protein kinase; serine/threonine-protein kinase SNF1LK; serine/threonine-protein kinase SNF1-like kinase 1; MSK; SIK; SNF1LK;

Gene ID

[150094](#)

mRNA Refseq

[NM_173354](#)

Protein Refseq

[NP_775490](#)

MIM

[605705](#)

UniProt ID

[P57059](#)

**Chromosome
Location**

21q22.3

Pathway

LKB1 signaling events, organism-specific biosystem;

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Function

14-3-3 protein binding; ATP binding; ATP binding; cAMP response element binding
protein binding; magnesium ion binding; magnesium ion binding; nucleotide binding;
protein binding; protein kinase binding; protein serine/threonine kinase activity;

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