

Recombinant Human SIK, GST-tagged

SIK1-48H Human

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.
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.
Source	Sf9 insect cells using baculovirus
Species	Human
Tag	GST
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
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

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MIM [605705](#)

UniProt ID [P57059](#)

**Chromosome
Location** 21q22.3

Pathway LKB1 signaling events, organism-specific biosystem;

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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