

Active Recombinant Human QIK, GST-tagged

Cat. No. SIK2-1478H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human QIK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	QIK is a serine/threonine protein kinase that contains an N-terminal kinase domain, a central domain with ubiquitin-associate motif, and a C-terminal PKA phosphorylation site. QIK can phosphorylate IRS1 and overexpression of QIK in adipocyte elevates the phosphorylation of IRS1. The QIK-mediated phosphorylation of IRS1 may modulate the efficiency of insulin signal transduction and could be responsible for insulin resistance associated with diabetes. Insulin disrupts TORC2 activity by induction of QIK which then stimulates the phosphorylation and cytoplasmic translocation of TORC2. Phosphorylated TORC2 is subsequently degraded by the 26S proteasome.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	112 nmol/min/mg
Molecular Mass	~150 kDa

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Purity	>70%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	SIK2 salt-inducible kinase 2 [Homo sapiens]
Official Symbol	SIK2?
Synonyms	SIK2; salt-inducible kinase 2; SNF1 like kinase 2 , SNF1LK2; serine/threonine-protein kinase SIK2; DKFZp434K1115; KIAA0781; LOH11CR1I; QIK; SIK-2; SNF1-like kinase 2; qin-induced kinase; salt-inducible protein kinase 2; salt-inducible serine/threonine kinase 2; serine/threonine-protein kinase SNF1-like kinase 2; SNF1LK2;
Gene ID	23235
mRNA Refseq	NM_015191
Protein Refseq	NP_056006
MIM	608973
UniProt ID	Q9H0K1

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Chromosome Location	11q23.1
Pathway	LKB1 signaling events, organism-specific biosystem;
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity;

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