

Recombinant Human STK39, His-tagged

Cat. No. STK39-29509TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human STK39 with N terminal His tag; 63kDa inclusive of tag. Genbank Number:
Species	Human
Source	Sf9 Cells
ProteinLength	545 amino acids
Description	This gene encodes a serine/threonine kinase that is thought to function in the cellular stress response pathway. The kinase is activated in response to hypotonic stress, leading to phosphorylation of several cation-chloride-coupled cotransporters. The catalytically active kinase specifically activates the p38 MAP kinase pathway, and its interaction with p38 decreases upon cellular stress, suggesting that this kinase may serve as an intermediate in the response to cellular stress.
Conjugation	HIS
Molecular Weight	63.000kDa inclusive of tags
Tissue specificity	Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.
Biological activity	Specific activity: 22 nmol/min/mg

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: 150mM Imidazole Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	STK39 serine threonine kinase 39 [Homo sapiens]
Official Symbol	STK39
Synonyms	STK39; serine threonine kinase 39; STE20/SPS1-related proline-alanine-rich protein kinase; DCHT; SPAK; STE20/SPS1 homolog (yeast);
Gene ID	27347
mRNA Refseq	NM_013233
Protein Refseq	NP_037365
MIM	607648
Uniprot ID	Q9UEW8

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Chromosome Location	2q24.3
Pathway	T Cell Receptor Signaling Pathway, organism-specific biosystem; TCR signaling in naive CD4+ T cells, organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein kinase binding; receptor signaling protein serine/threonine kinase activity;

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