

Recombinant Human Serine/Threonine Kinase 4, GST-His

Cat. No. STK4-709H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STK4, amino acids M3-F487, Nterminal GST-HIS6 fusion protein with a 3C cleavage site, was expressed in Sf9 insect cells. MW =86,340 Da.
Species	Human
Source	Sf9 Cells
ProteinLength	3-487 a.a.
Description	The protein encoded by this gene is a cytoplasmic kinase that is structurally similar to the yeast Ste20p kinase, which acts upstream of the stress-induced mitogen-activated protein kinase cascade. The encoded protein can phosphorylate myelin basic protein and undergoes autophosphorylation. A caspase-cleaved fragment of the encoded protein has been shown to be capable of phosphorylating histone H2B. The particular phosphorylation catalyzed by this protein has been correlated with apoptosis, and it's possible that this protein induces the chromatin condensation observed in this process.
Purification	GST-Affinity Chromatography.
Product Identity	MST1 was confirmed as MST1 by mass spectroscopy LC-ESI-MS/MS.
Storage Buffer	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.

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Concentration	0.306 µg/µl (Bradford method using BSA [Sigma, cat# A-7638, Lot 79H7641] as standard protein).
Specific Activity	322 pmol/µg×min.
Storage	-80°C. Avoid repeated freeze-thaw cycles!
GENE INFORMATION	
Gene Name	STK4 serine/threonine kinase 4 [Homo sapiens]
Synonyms	STK4; serine/threonine kinase 4; KRS2; MST1; YSK3; DKFZp686A2068; yeast Ste20-like; mammalian sterile 20-like 1; kinase responsive to stress 2; dJ211D12.2 (serine/threonine kinase 4 (MST1, KRS2)); EC 2.7.11.1; MST-1; OTTHUMP00000043418; Mammalian STE20-like protein kinase 1; STE20-like kinase MST1; Serine/threonine-protein kinase Krs-2; Serine/threonine-protein kinase 4
Gene ID	6789
mRNA Refseq	NM_006282
Protein Refseq	NP_006273
MIM	604965
UniProt ID	Q13043
Chromosome Location	20q11.2-q13.2
Pathway	MAPK signaling pathway; Non-small cell lung cancer; Pathways in cancer

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Function

ATP binding; magnesium ion binding; nucleotide binding; protein homodimerization activity; protein serine/threonine kinase activity; transcription factor binding; transferase activity

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