

## MST3 Protein, Human, Recombinant (His)

### General Information

Synonyms:	HEL-S-95;STE20;MST3B;RP11-111L24.5;MST3;STK3;serine/threonine kinase 24
Protein Construction:	A DNA sequence encoding the human STK24 isoform A (Q9Y6E0-2) (Met 1-His 431) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q9Y6E0-2
Molecular Weight:	50.3 kDa (predicted); 55 kDa (reducing conditions)

### QC Testing

Biological Activity:	The specific activity was determined to be >30 nmol/min/mg using synthetic PKCtide peptide (ERM <sub>2</sub> PRKRQGSVRRRV) as substrate.
Purity:	> 82 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 20% gly, 0.1 mM EGTA, 0.1 mM EDTA, 0.25 mM DTT.

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Aberrant STK24 expression was an independent prognostic indicator in lung adenocarcinoma patients. Its dysregulation was associated with its DNA copy number alteration and methylation. STK24/CCM3-regulated exocytosis plays an important role in the protection of kidneys from ischemia-reperfusion injury.

### Reference

Lu TJ,et al.(2006) Inhibition of cell migration by autophosphorylated mammalian sterile 20-like kinase 3 (MST3) involves paxillin and protein-tyrosine phosphatase-PEST. J Biol Chem. 281(50): 38405-17.

Lu TJ,et al.(2005) Zinc ion acts as a cofactor for serine/threonine kinase MST3 and has a distinct role in autophosphorylation of MST3. J Inorg Biochem. 99(6): 1306-13.

Schinkmann K,et al.(1997) Cloning and characterization of a human STE20-like protein kinase with unusual cofactor requirements. J Biol Chem. 272 (45): 28695-703.

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