

Recombinant Human MST2/STK3 Protein

Catalog No.: RP03343LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	6788	Q13188

Tags

N-GST

Synonyms

STK3; KRS1; MST2; Mammalian STE20-like protein kinase 2; Serine/threonine-protein kinase 3

Product Information

Source	Purification
Baculovirus-Insect Cells	> 80% by SDS-PAGE and HPLC

Calculated MW	Observed MW
82.8 kDa	60-85 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method

Formulation

Supplied as a 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, 0.5 mM EDTA, 0.02% Triton® X-100, 2 mM DTT, 10% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution

Please use running water to thaw it quickly.

Contact

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Background

Human serine/threonine-protein kinase 3 (STK3, or MST2) is a 56,301 Da monomer with three domains: a SARAH domain, composed of a long α-helix at the C-terminus that when dimerized, forms an antiparallel dimeric coiled-coil, an inhibitory domain, and a catalytic kinase domain at the N-terminus. STK3 is activated through autophosphorylation by dimerizing with itself or heterodimerizing with its homolog, MST1 (STK4). In addition to activation by staurosporine and FAS ligand, STK3 has been found to be activated through dissociation of GLRX and Thioredoxin (Trx1) from STK3 under oxidative stress. In many types of cancers, the proto-oncogene c-Raf binds to the SARAH domain of MST2 and prevents RASSF1A-mediated MST2 dimerization and subsequent downstream pro-apoptotic signaling.

Basic Information

Description

Recombinant Human MST2/STK3 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Phe491) of Human STK3 (Accession #Q13188) fused with a N-GST tag.

Bio-Activity

The activity of MST2 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

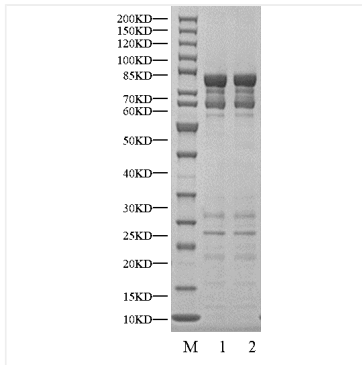
Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

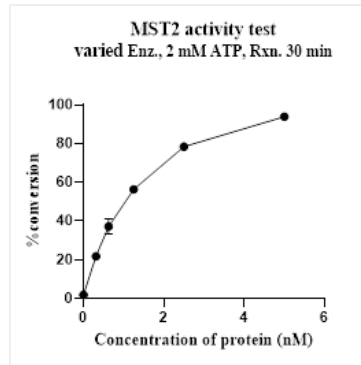
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human MST2/STK3 Protein was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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