Recombinant Human MST4 Protein (GST Tag)

Catalog Number: PKSH030401

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

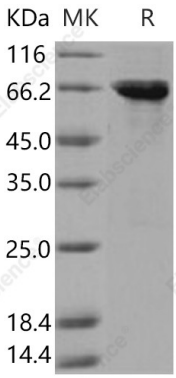
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human MST4 protein Met 1-Pro 416, with an N-terminal GST
Calculated MW	73 kDa
Observed MW	65 kDa
Accession	NP_057626.2
Bio-activity	The specific activity was determined to be 15 nmol/min/mg using MBP as substrate.

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as sterile solution of 50 mM Tris, 100 mM NaCl, pH 8.0, 25% glycerol, 0.6 mM GSH, 0.5 mM PMSF, 0.5 mM EDTA, 2 mM DTT

Data



> 95 % as determined by reducing SDS-PAGE.

Background

MST4, also known as mammalian STE20-like protein kinase 4, is a novel member of the germinal center kinase subfamily of human Ste20-like kinases and is closely related to MST3. The 416 amino acid full-length MST4 contains a C-terminal regulatory domain and an N-terminal kinase domain, both of which are required for full activation of the kinase. MST4 is highly expressed in placenta, thymus, and peripheral blood leukocytes. MST4 specifically activates ERK but not JNK or p38 MAPK in transient transfected cells or in stable cell lines, and thus is biologically active in the activation of MEK/ERK pathway mediating cell growth and transformation. Further, MST4 kinase activity is stimulated significantly by epidermal growth factor receptor (EGFR) ligands, which are known to promote growth of certain cancer cells. Accordingly, MST4 have a potential role in signal transduction pathways involved in cancer progression. Three alternatively spliced isoform of MST4 have been isolated, and isoform 3 lacks an exon encoding kinase domain and may function as a dominant-negative regulator of the MST4 kinase.

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