Recombinant Human TAOK3/JIK/MAP3K18 Protein (aa 1-411, His &GST Tag)

Catalog Number: PKSH030364

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

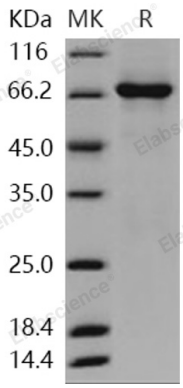
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human TAOK3/JIK/MAP3K18 protein Met 1-Asp 411, with an N-terminal His & GST
Calculated MW	74.3 kDa
Observed MW	85 kDa
Accession	Q9H2K8-1
Bio-activity	The specific activity was determined to be 10 nmol/min/mg using synthetic PKCtide peptide (ERMRPRKRQGSVRRRV) as substrate.

Properties

Purity	> 92 % 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 20mM Tris, 500mM NaCl, 3mM GSH, pH 7.4, 10% glycerol

Data



> 92 % as determined by reducing SDS-PAGE.

Background

Serine/threonine-protein kinase TAO3, also known as cutaneous T-cell lymphoma-associated antigen HD-CL-09, CTCL-associated antigen HD-CL-09, Dendritic cell-derived protein kinase, JNK / SAPK-inhibitory kinase, Jun kinase-inhibitory kinase, Kinase from chicken homolog A, Thousand and one amino acid protein 3, JIK, TAOK3 and MAP3K18, is cytoplasm and peripheral membrane protein which belongs to theprotein kinase superfamily, STE Ser/ Thr protein kinase family and STE20 subfamily. Protein kinases are pivotal regulators of cell signaling that modulate each other's functions and activities through site-specific phosphorylation events. TAOK3 / JIK contains oneprotein kinase domain. TAOK3 / JIK is ubiquitously expressed at a low level, and highly expressed in peripheral blood leukocytes (PBLs), thymus, spleen, kidney, skeletal muscle, heart and liver. TAOK3 / JIK inhibits the basal activity of Jun kinase. It is negatively regulated by epidermal growth factor (EGF). When overexpressed, TAOK3 / JIK may activate ERK1 / ERK2 and JNK / SAPK.