

## 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.

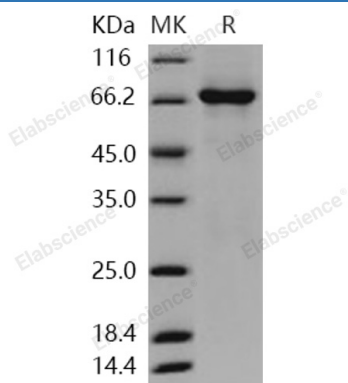
### Description

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

### Properties

<b>Purity</b>	> 92 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	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

### For Research Use Only

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 the protein 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 one protein 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.