



Recombinant Protein Technical Manual
Recombinant Human TAOK3/JIK/MAP3K18 Protein
(aa 1-411, His & GST Tag)(Active)
RPES1267

Product Data:

Product SKU: RPES1267

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: Q9H2K8

Protein Information:

Molecular Mass: 74.3 kDa

AP Molecular Mass: 85 kDa

Tag: N-His & GST

Bio-activity: The specific activity was determined to be 10 nmol/min/mg using synthetic PKCtide peptide (ERM_RPRKRQGSVRRRV) as substrate.

Purity: > 92 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 20mM Tris, 500mM NaCl, 3mM GSH, pH 7.4, 10% gly

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: DPK;JIK;MAP3K18

Immunogen Information:

Sequence: Met 1-Asp 411

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 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.