

Recombinant Human TAO3/JIK/MAP3K18 Protein (aa 1-411, His & GST Tag)

Catalog No. PKSH030364

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

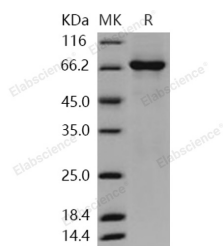
Description

Synonyms	DPK;JIK;MAP3K18
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Asp 411
Accession	Q9H2K8-1
Calculated Molecular Weight	74.3 kDa
Observed molecular weight	85 kDa
Tag	N-His-GST
Bioactivity	The specific activity was determined to be 10 nmol/min/mg using synthetic PKCtide peptide (ERM RPRKRQG S VRRRV) as substrate.

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
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
Reconstitution	Not Applicable

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

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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.