

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

Catalog Number: 11547-H20B



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

DPK; JIK; MAP3K18

### Protein Construction:

A DNA sequence encoding the amino acids (Met 1-Asp 411) of human TAOK3 (Q9H2K8-1) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

**Source:** Human

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 92 % as determined by SDS-PAGE

### Bio Activity:

**The specific activity was determined to be 10 nmol/min/mg using synthetic PKCtide peptide (ERMRPKRQGSVRRRV) as substrate.**

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human TAOK3 (aa 1-411)/GST chimera consists of 648 amino acids and has a calculated molecular mass of 74.3 kDa. It migrates as an approximately 85 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Supplied as sterile 20mM Tris, 500mM NaCl, 3mM GSH, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

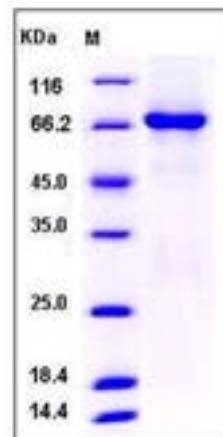
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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.

## References

1. Tassi E., et al., 1999, J. Biol. Chem. 274:33287-95. 2. Yoneda T., et al., 2001, J. Biol. Chem. 276:13935-40. 3. Yustein J.T., et al., 2003, Oncogene 22:6129-41.

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