

TAOK3 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P77222
Synonyms:	Serine/threonine-protein kinase TAO3; JNK/SAPK-inhibitory kinase; DPK; JIK; KDS; MAP3K18
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9H2K8 (M1-D411)
Gene ID:	51347
Molecular Weight:	Approximately 85 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 3 mM GSH, pH 7.4, 10% gly
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	TAOK3, a serine/threonine-protein kinase, functions as a regulator of the p38/MAPK14 stress-activated MAPK cascade and the MAPK8/JNK cascade. It acts as an activator of the p38/MAPK14 cascade, particularly in response to DNA damage, where it plays a role in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 cascade. This activation is likely mediated through the phosphorylation of upstream MAP2K3 and MAP2K6 kinases. Moreover, TAOK3 serves as an inhibitor of the basal activity of the MAPK8/JNK cascade and reduces its activation in response to epidermal growth factor (EGF). These regulatory functions highlight TAOK3's role in coordinating cellular responses to DNA damage and growth factor signaling.
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Caution: Product has not been fully validated for medical applications. For research use only.

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