

## TSSK4 Protein, Human (Sf9, His, GST)

Cat. No.:	HY-P701651
Synonyms:	TSSK4; Testis-specific serine/threonine-protein kinase 4; TSK-4; TSSK-4; Testis-specific kinase 4; Serine/threonine-protein kinase 22E
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6SA08 (G2-T328)
Gene ID:	283629
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
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	TSSK4, a serine/threonine kinase, plays a pivotal role in male germ cell development and contributes to mature sperm function. It is potentially involved in the Cre/Creb signaling pathway, as suggested by its ability to phosphorylate CREB1 on 'Ser-133' in vitro and stimulate the Cre/Creb pathway in cells. Additionally, TSSK4 exhibits phosphorylation activity on CREM at 'Ser-116' in vitro. Another target of TSSK4 phosphorylation is ODF2, with 'Ser-95' being a specific phosphorylation site. These findings underscore the multifaceted involvement of TSSK4 in critical cellular processes related to male germ cell development and sperm functionality.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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