

Recombinant Human Testis-Specific Serine Kinase 1B, GST-tagged

Cat. No. TSSK1B-1113H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TSSK1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	TSSK1B (testis-specific serine kinase 1B) is a member of a unique subfamily of protein kinases belonging to the AMPK branch on the human kinome tree. TSSK1B is a serine/threonine kinases that is highly expressed in testis and lower express in pancreas, and weak expression in a few other tissues. TSSK members are present in the equatorial segment of human sperm. TSSK1B share 72% amino acid identity and 83% identity in the kinase domain with other family TSSK members and the TSSK1 gene is intronless. In vitro kinase assay shows phosphorylation of TSKS by TSSK1 and TSSK2.
Applications	Kinase Assay; Western Blot
Molecular Weight	71kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25% glycerol.

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Specific Activity	60nmol/min/mg
Purity	>80%
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.

GENE INFORMATION

Gene Name	TSSK1B testis-specific serine kinase 1B [Homo sapiens]
Official Symbol	TSSK1B
Synonyms	TSSK1B; TSSK1; FKSG81; SPOGA4; STK22D; SPOGA1; STK22A; testis-specific serine/threonine-protein kinase 1; TSK-1; testis-specific serine kinase 1B; TSSK-1; testis-specific kinase 1; spermiogenesis associated 4; serine/threonine kinase FKSG81; testis-specific serine kinase 1; serine/threonine-protein kinase 22A; EC 2.7.11.1; EC 2.7.11serine/threonine kinase 22D (spermiogenesis associated)
Gene ID	83942
mRNA Refseq	NM_032028
Protein Refseq	NP_114417

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MIM	610709
UniProt ID	Q9BXA7
Chromosome Location	5q22.2
Function	ATP binding; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity

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