

Active Recombinant Full Length Human TSSK2 Protein, C-Flag-tagged

Cat. No. TSSK2-784HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TSSK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	TSSK2 belongs to a family of serine/threonine kinases highly expressed in testis.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	TSSK2 activity verified in a biochemical assay: TSSK2 (testis-specific serine kinase 2) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. TSSK2 is a serine/threonine kinase that is highly expressed in testis and may be involved in the late stages of spermatogenesis, during the reconstruction of the cytoplasm. Varying concentrations of TSSK2 were added to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluors.
Molecular Mass	40.8 kDa

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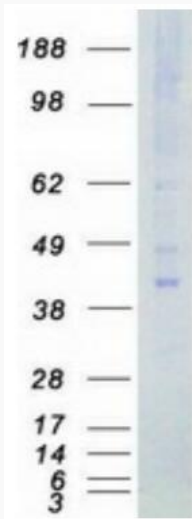
 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MDDATVLRKKGYIVGINLGKGSYAKVKSAYSERLKFNVAVKIIDRKKTPDFVERFLP REMDILATVNHG SIIKTYEIFETSDGRIYIIMELGVQGDLLFIKCQGALHEDVARKMF RQLSSAVKYCHDLDIVHRDLKCE NLLLDKDFNIKLSDFGFSKRCLRDSNGRIILSKTF CGSAAYAAPEVLQSIPYQPKVYDIWSLGVILYIMV CGSMFYDDSDIRKMLRIQKEHR VDFPRSKNLTCECKDLIYRMLQPDVSQRLHIDEILSHSWLQPPKPKAT SSASFKREG EGKYRAECKLDTKTDLRPDHRPDHKLGAKTQHRLLVVPENENRMEDRLAETSRAKD HHISG AEVGKASTTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Full Length	Full L.
GENE INFORMATION	
Gene Name	TSSK2 testis specific serine kinase 2 [Homo sapiens (human)]
Official Symbol	TSSK2

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Synonyms	TSK2; DGS-G; SPOGA2; STK22B
Gene ID	23617
mRNA Refseq	NM_053006.5
Protein Refseq	NP_443732.3
MIM	610710
UniProt ID	Q96PF2
 Coomassie blue staining of purified TSK2 protein.	