

## Active Recombinant Human TESK2, GST-tagged

Cat. No. TESK2-252H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human TESK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	TESK2 or testis-specific kinase 2 is a serine/threonine protein kinase that contains an N-terminal protein kinase domain and belongs to the TESK subgroup of the LIMK/TESK family of protein kinases. The kinase domain of TESK2 is structurally similar to the kinase domain of testis-specific protein kinase-1 and the LIM motif-containing protein kinases (LIMKs). TESK2 is predominantly expressed in testis and prostate and plays an important role in spermatogenesis. TESK2 phosphorylates cofilin specifically at Ser-3 and induces formation of actin stress fibers and focal adhesions.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	The specific activity of TESK2 was determined to be 3.5 nmol /min/mg
<b>Molecular Mass</b>	~92 kDa
<b>Purity</b>	>80% by densitometry

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<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store product at –70 centigrade. 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.
<b>Concentration</b>	0.1 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TESK2 testis-specific kinase 2 [ Homo sapiens ]
<b>Official Symbol</b>	TESK2
<b>Synonyms</b>	TESK2; testis-specific kinase 2; dual specificity testis-specific protein kinase 2; testicular protein kinase 2;
<b>Gene ID</b>	10420
<b>mRNA Refseq</b>	NM_007170
<b>Protein Refseq</b>	NP_009101
<b>MIM</b>	604746
<b>UniProt ID</b>	Q96S53
<b>Chromosome Location</b>	1p32
<b>Pathway</b>	Focal Adhesion, organism-specific biosystem;

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**Function**

ATP binding; metal ion binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity;

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