

Active Recombinant Human TESK2, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human TESK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	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.
Form	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.
Bio-activity	The specific activity of TESK2 was determined to be 3.5 nmol /min/mg
Molecular Mass	~92 kDa
Purity	>80% by densitometry

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Applications	Kinase Assay, Western Blot
Storage	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.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	TESK2 testis-specific kinase 2 [Homo sapiens]
Official Symbol	TESK2
Synonyms	TESK2; testis-specific kinase 2; dual specificity testis-specific protein kinase 2; testicular protein kinase 2;
Gene ID	10420
mRNA Refseq	NM_007170
Protein Refseq	NP_009101
MIM	604746
UniProt ID	Q96S53
Chromosome Location	1p32
Pathway	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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