

## 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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