

## Active Recombinant Human TSSK2, GST-tagged

Cat. No. TSSK2-1501H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant full-length human TSSK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | Full length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | TSSK2 is an intronless serine-threonine kinase that was originally detected on mouse chromosome 16. TSSK2 and TSSK1 share 72% overall amino acid identity and 83% identity in the kinase domain. Real-time PCR showed abundant TSSK2 expression in testis and lower levels in heart, brain, and placenta while Western blot analysis detected TSSK2 at the predicted molecular mass of 40kDa in human sperm and testis. Co-immunoprecipitation and yeast 2-hybrid analysis show that TSSK2 can interact with a protein TSKS, that also acts as a substrate for this protein kinase. |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Bio-activity</b>     | 136 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | ~66 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Kinase Assay, Western Blot                                                                                                                                       |
| <b>Storage</b>          | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles. |
| <b>Concentration</b>    | 0.1µg/µl                                                                                                                                                         |
| <b>GENE INFORMATION</b> |                                                                                                                                                                  |
| <b>Gene Name</b>        | TSSK2 testis specific serine threonine kinase 2 [ Homo sapiens ]                                                                                                 |
| <b>Official Symbol</b>  | TSSK2                                                                                                                                                            |
| <b>Synonyms</b>         | TSSK2; testis specific serine threonine kinase 2; DGS-G;                                                                                                         |
| <b>Gene ID</b>          | 25785                                                                                                                                                            |

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