

## Recombinant Human TTK (N-GST tag)

Cat No:HR2R2041

For research use only

### Overview

|                    |  |
|--------------------|--|
| Quantity           | 10 ?g  |
| Gene Symbol        | TTK  |
| Gene ID            | N/A  |
| Accession          | NM_003318  |
| Alternative Name   | ESK, PYT, MPS1, MPS1L1, FLJ38280   |
| Species            | Human  |
| Source             | Insect cells   |
| Description        | TTK is a serine/threonine kinase that has been implicated in the regulation of centrosome duplication and mitotic checkpoint response. Overexpressing of dominant-negative TTK in human cell lines prevents centrosome duplication while active TTK accelerates centrosome reduplication in an osteosarcoma cell line. Disruption of TTK function leads to a combination of severe mitotic abnormalities and failure in centrosome duplication . TTK is required for stabilization and activation of p53 during spindle disruption. TTK phoshorylates the N-terminal domain of p53 at Thr18, and this phosphorylation disrupts the interaction with MDM2 and abrogates MDM2-mediated p53 ubiquitination .? |
| Functions          | The specific activity of TTK was determined to be 19 nmol /min/mg as per activity assay protocol.  |
| Formulation        | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.   |
| Solubility         | N/A  |
| Appearance         | Liquid   |
| Molecular Weight   | 130  |
| Purity             | 70% - 90%  |
| Concentration      |  |
| Shipping Condition | Dry Ice  |
| Storage Condition  | Store product at ?70?C. 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.  |