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## Data Sheet

### TTK

Human, recombinant, N-terminal GST-tag

**Catalog #:** 40291

**Lot #:** 140701

**Conc.:** 0.1 mg/ml

**Formulated in:** 50 mM Tris-HCl, 7.5, 150 mM NaCl, 10 mM glutathione, 0.25 mM, 0.1 mM PMSF, 25% glycerol.

**Stability:** >6 months at  $-80^{\circ}\text{C}$ . Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).

#### References:

1. Fisk, H.A., *et al. Proc. Nat. Acad. Sci.* 2003; **100**:14875-14880
2. Huang, Y.F., *et al. Mol. Cell Biol.* 2009; **11**:2935-2944.

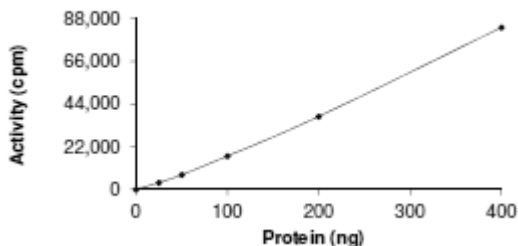
**Description:** Human Dual specificity protein kinase TTK, also known as MPS1, MPS1L1 GenBank Accession No. NM\_003318, amino-acids 1-857(end) with an N-terminal GST-tag, MW=130 kDa, expressed in a baculovirus-infected Sf9 cell expression system.

**Specific Activity:** 18 pmole/min/ $\mu\text{g}$

Assay Conditions: Varying concentrations of MLK1 were mixed with 5  $\mu\text{g}$  of MBP protein substrate and 5  $\mu\text{l}$  of 250  $\mu\text{M}$  [ $^{33}\text{P}$ ]-ATP was added for a total volume of 25  $\mu\text{l}$ . Mixture was incubated for 15 min at  $30^{\circ}\text{C}$ . Reaction was stopped by placing 20  $\mu\text{l}$  of reaction onto phosphocellulose P81 paper. Paper was washed 3 times with 1% phosphoric acid solution for 10 min each and air dried. Radioactivity was measured from the P81 paper in the presence of scintillation fluid using a scintillation counter.

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

### Quality Assurance

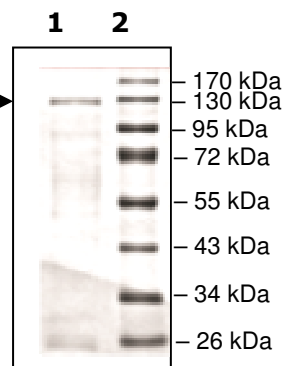


#### 4-20% SDS-PAGE Coomassie staining

**Lane 1:**  
TTK

**Lane 2:**  
Protein Marker

**MW:** 130 kDa  
**Purity:**  $\geq 75\%$



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