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## Data Sheet

### MLK3

Human, recombinant, N-terminal GST-tag

**Catalog #:** 41104

Lot #: xxxxxx

Conc.: 0.1 mg/ml

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

**Stability:** >6 months at -80°C. Avoid freeze/thaw cycles.

**References:**

1. Ing, Y.L. *et al.*, *Oncogene*. 1994. **9**:1745-1750.
2. Chadee, D.N. *et al.*, *Nature Cell Biol.* 2004. **6**:770-776.

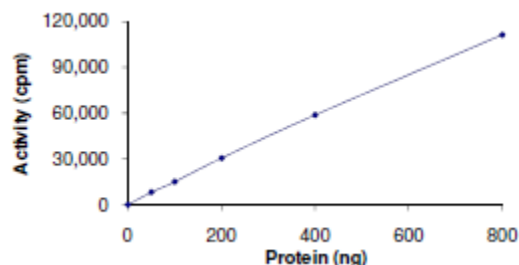
**Description:** Human MLK3, also known as Mixed Lineage Kinase 3, Mitogen-activated protein kinase kinase kinase 11, MAP3K11, PTK1, SPRK, and MGC17114, GenBank Accession No. NM\_002419, a.a. 1-488, with N-terminal GST-tag, MW = 83 kDa, expressed in Sf9 cells via a baculovirus expression system.

**Specific Activity:** 9.5 pmole/min/μg

**Assay Conditions:** Varying concentrations of MLK3 were mixed with 5 μg of MBP protein substrate and 5 μl of 250 μM [<sup>33</sup>P]-ATP was added for a total volume of 25 μl. Mixture was incubated for 15 min at 30°C. Reaction was stopped by placing 20 μl 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.

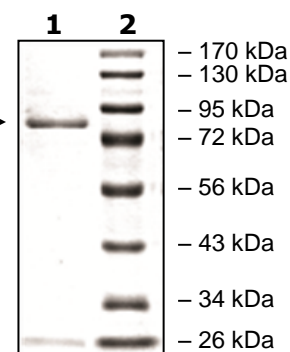
## Quality Assurance



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

**Lane 1:** MLK3  
**Lane 2:** Protein Marker

**MW:** 83 kDa  
**Purity:** ≥75%



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