

# Certificate of Analysis

## MERTK (cMER), 10 µg

Recombinant Human cMer Proto-Oncogene Tyrosine Kinase, GST-tagged

**ThermoFisher**  
SCIENTIFIC

**Part Number:** PV3627

**Lot Number:** 2136631B

**Immediate Storage:** -80°C

**Shipping Conditions:** dry ice

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### Description:

Recombinant Human protein, Catalytic Domain (amino acids 578-872), GST-tagged, expressed in insect cells containing additional C-terminal amino acids KGGRADPAFLYKVV (legacy from Gateway® cloning). No special measures were taken to activate this kinase.

### Specific Activity:

73 nmoles of phosphate transferred to poly [Glu, Tyr] 4:1 substrate per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 4 µg/mL.

### Concentration:

0.46 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated 7,260 nM. = 6899 nM

### Aliases:

MER, c-mer

### Storage and Handling:

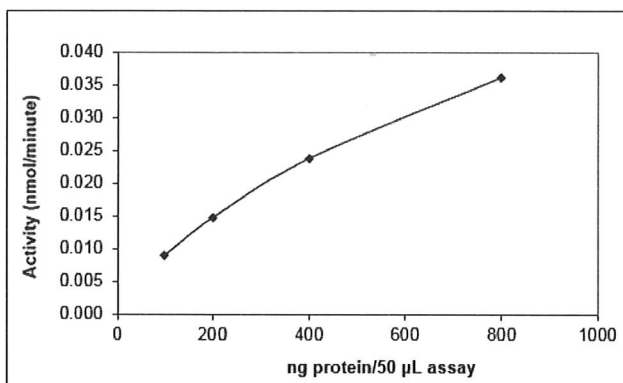
For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 µg, 10 µg and 20 µg sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

### Storage Buffer:

50 mM Tris (pH 7.5), 150 mM NaCl, 0.5 mM EDTA, 0.02% Triton® X-100, 2 mM DTT and 50% Glycerol.

## QUALITY ASSURANCE

### MERTK (cMER) Activity Graph



### Dilution Buffer:

20 mM Tris (pH 7.5), 0.02% Triton® X-100, 0.1 mg/mL BSA, 2 mM DTT, 0.5 mM Na<sub>3</sub>VO<sub>4</sub> and 10% Glycerol.

### Assay Conditions:

MERTK (cMER) was pre-diluted in enzyme dilution buffer and assayed in 12.5 mM Tris (pH 7.5), 10 mM MgCl<sub>2</sub>, 1 mM EGTA, 0.5 mM Na<sub>3</sub>VO<sub>4</sub>, 5 mM β-glycerophosphate, 2 mM DTT, 0.01% Triton® X-100, 200 µM ATP, 200 µg/mL poly [Glu, Tyr] 4:1 substrate and trace [<sup>32</sup>P]-γ-ATP for 10 minutes at 30°C.

### Gel Information for MERTK (cMER)

**Page Description:** The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex® gels (Catalog #: EC6025BOX).

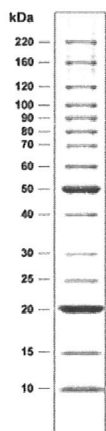
**Lane 1:** Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

**Lane 2:** 0.5 µg MERTK (cMER)

**Lane 3:** 1.0 µg MERTK (cMER)

**Lane 4:** 2.5 µg MERTK (cMER)

**Lane 5:** 5.0 µg MERTK (cMER)



### Purity:

95% as determined by a Coomassie® blue stained SDS-PAGE gel.

### Molecular Weight:

63.4 kDa. Calculated from the protein sequence(s).

### Mass Spectrometry:

MERTK (cMER) was subjected to proteolytic digest followed by mass spec analysis. The resulting MS/MS data verified MERTK (cMER) identity by comparison against the amino acid sequence(s) of the recombinant protein.

For questions, please contact our Technical Support Team

N. Am Ph#: 800-955-6288 ext. 40266 Email: drugdiscoverytech@thermofisher.com