

Certificate of Analysis

Recombinant Human MKK4 Expressed in Human Cells

MKK4HumaXpress

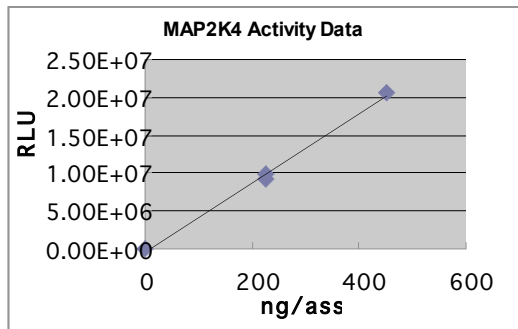
Cat #: HZ-2048 Lot #: CHI-0507

Product Description: Recombinant human full length MAP2K4 (Accession No: L36870) with an N-terminal GST-tag, expressed in engineered human cells.

Specific Activity: 34U/mg, where one unit of kinase activity is equivalent to 1nmole of ATP consumed in the presence of inactive GST-p38alpha Hu substrate per minute at 30 °C with a final ATP concentration of 80µM.

Quality Control Testing

MAP2K4 activity Assay: MAP2K4 was assayed with 500ng inactive GST-p38alpha Hu substrate. The MAP2K4 protein was incubated with substrate at 30 °C for 20 minutes. Activity was measured and the luminescence signal was converted to ATP consumed in the reaction.



Purity Confirmation: Purity was assessed by SDS-PAGE and SimplyBlue SafeStaining using 500ng of MAP2K4 Kinase protein. Arrow indicates the GST-fused MAP2K4.

Formulation: 5µg of recombinant protein in 60 µl of 50mM Tris, pH7.4, 5mM DTT, 10% glycerol, 1mM PMSF.

Storage and Stability: Stable for 6 months at -80°C from date of shipment (Avoid repeated freezing and thawing). For maximum recovery of product, centrifuge original vial prior to removing the cap.

Reference

Sanchez I., et al (1994), *Nature*, 372:794-798
Whitemarsh AJ. et al (2007), *Oncogene*, 26: 3172-3184

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