

## Certificate of Analysis

### Recombinant Human MAPKAPK2 Expressed in Human Cells

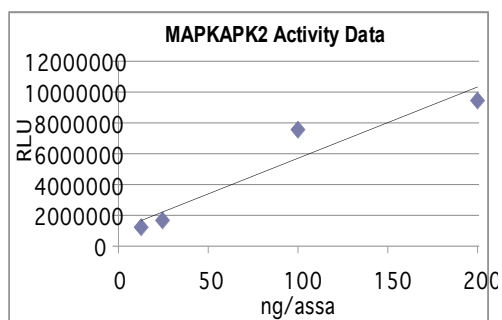
MAPKAPK2<sup>HumaXpress</sup>  
Cat #: HZ-2039 Lot #: CHI- 0507

**Product Description:** Recombinant human full-length N-terminal GST-tagged MAPKAPK2 (Accession No: NM004759) expressed in engineered human cells.

**Specific Activity:** 184U/mg, where one unit of kinase activity is equivalent to 1nmole of ATP consumed in the presence of 30 $\mu$ M MAPKAPK2 substrate peptide (KKLNRTLVA) per minute at 30°C with a final ATP concentration of 80 $\mu$ M.

#### Quality Control Testing

**MAPKAPK2 Kinase:** MAPKAPK2 was assayed with 30 $\mu$ M MAPKAPK2 substrate peptide (KKLNRTLVA). The MAPKAPK2 protein was incubated with substrate at 30°C for 15 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 Safe Staining using 250ng of MAPKAPK2 Kinase protein. Arrow indicates the GST-fused MAPKAPK2.

**Formulation:** 5 $\mu$ g of recombinant protein in 50 $\mu$ l 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

Stokoe, D. et al (1993) *Biochem. J.*, 296, 843-849.  
Rouse, J. et al (1994) *Cell*, 78, 1027-1037.

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