

Certificate of Analysis

Recombinant Human Zap-70 Expressed in Human Cells

Zap-70^{HumaXpress}

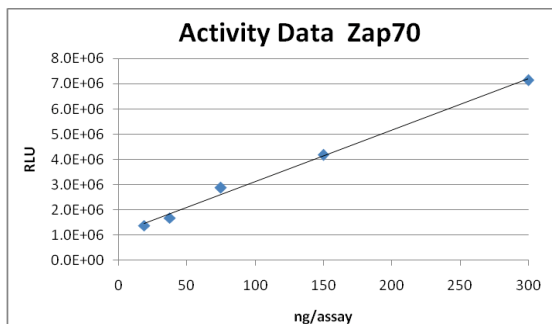
Cat #: HZ-2066 Lot #: CHI-0507

Product Description: Recombinant human full length Zap-70 (Accession No: BC053878) with an N-terminal GST-tag, expressed in engineered human cells.

Specific Activity: 44U/mg, where one unit of kinase activity is equivalent to 1nmole of ATP consumed in the presence of 0.2 μ g/ μ l Poly (Glu₄-Tyr) substrate peptide per minute at 30 °C with a final ATP concentration of 80 μ M.

Quality Control Testing

Zap-70 activity Assay: Zap70 was assayed with 0.2 μ g/ μ l Poly (Glu₄-Tyr) substrate peptide. The Zap-70 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 600ng of Zap-70 Kinase protein. Arrow indicates the GST-fused Zap-70.

Formulation: 5 μ g of recombinant protein in 100 μ l of 50mM Tris, pH7.4, 150mM NaCl, 5mM DTT, 1mM PMSF. Frozen solution.

Storage and Stability: Stable for one year at -80°C from date of shipment (Avoid repeated freezing and thawing).

Reference

Isakov, N., et al (1996), *J. Biol Chem.*, 271, 15753-15761.

Chan, A., et al (1992), *Cell*, 71, 649- 662.

Limited Use and Restrictions: Unless otherwise stated in our catalog or other company documentation accompanying the product, products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals. For a complete statement of this Limited Use License and its application to drug discovery and diagnostic research please see www.humanzyme.com.

