

## Certificate of Analysis

### Recombinant Human SYK Expressed in Human Cells

SYK<sup>HumaXpress</sup>

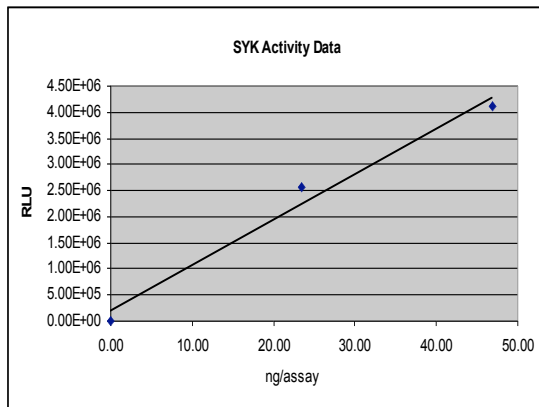
Cat #: HZ-2064 Lot #: CHI-0907

**Product Description:** Recombinant human full length SYK (Accession No: BC001645) with an N-terminal GST-tag, expressed in engineered human cells.

**Specific Activity:** 176U/mg, where one unit of kinase activity is equivalent to 1nmole of ATP consumed in the presence of 0.2 $\mu$ g/ $\mu$ l Poly(Glu<sub>4</sub>-Tyr) substrate peptide per minute at 30°C with a final ATP concentration of 75 $\mu$ M.

#### Quality Control Testing

**SYK activity Assay:** SYK was assayed with 0.2 $\mu$ g/ $\mu$ l Poly (Glu<sub>4</sub>-Tyr) substrate peptide. The SYK 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 SafeStaining using 1 $\mu$ g of SYK Kinase protein. Arrow indicates the GST-fused SYK.

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

Borowski, P., et al (1998), *Biochem J.*, 331, 649-657.

Cheng, A., et al (1997) *Curr. Opin. Immunol.* 9, 528-533.

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