

## Certificate of Analysis

### Recombinant Human P70S6K1 Expressed in Human Cells

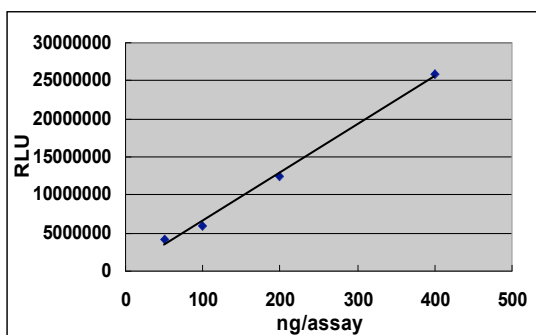
**P70S6K1** HumaXpress  
Cat #: HZ-2053 Lot #: CHI-0207

**Product Description:** Recombinant human full length p70 S6 kinase-1 (Accession No: NM\_003161) with an N-terminal GST-tag, expressed in engineered human cells.

**Specific Activity:** 98U/mg. One unit of kinase activity is equivalent to 1nmole ATP consumed in the kinase reaction assay in the presence of 50 $\mu$ M S6 Kinase/Rsk2 substrate per minute at 25°C with a final ATP concentration of 100 $\mu$ M.

#### Quality Control Testing

**p70 S6 kinase-1 activity Assay:** p70 S6 kinase-1 was assayed using 50 $\mu$ M S6 kinase/Rsk2 substrate peptide (KKRNRTLK) 2, a synthetic peptide corresponding to amino acids 917-923 of human insulin related receptor after serum stimulation. The p70 S6 kinase-1 protein was incubated with the substrate at 25°C for 30 minutes. Activity was measured and the luminescent signal was converted to the ATP consumed in the reaction.



**Purity Confirmation:** Purity was assessed by SDS-PAGE and SimplyBlue SafeStaining using 500ng of active p70 S6 kinase 1. Arrow indicates the GST-fused p70 S6 kinase 1.

**Formulation:** 25 $\mu$ g of recombinant protein in 200 $\mu$ l of 50mM Tris, pH7.4, 150mM NaCl, 5mM DTT, 1mM PMSF. Frozen solution.

**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

Pullen N., et al (1998), *Science* 279, 707-710  
Herbert T., et al (2000), *JBC.*, 275, 11249-56

**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](http://www.humanzyme.com).

