

Certificate of Analysis

**Recombinant Human P70S6K2
Expressed in Human Cells**

P70S6K2HumaXpress

Cat #: HZ-2054 Lot # CHI-1206

Product Description: Recombinant human full length p70 S6 kinase-2 (Accession No: BC000094)N-terminal GST-tag, expressed in engineered human cells.

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

Specific Activity): 90U/mg. One unit of kinase activity is equivalent to 1nmole ATP consumed in the kinase reaction assay in the presence of 50µM S6 Kinase/Rsk2 substrate per minute at 25°C with a final ATP concentration of 100µM.

Reference

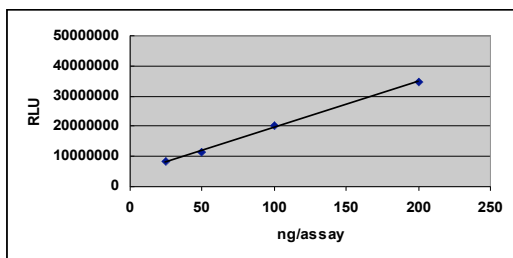
Phin S., et al (2003), *Biochem J.*, 373, 583-591

Martin K A., et al (2001), *JBC.*, 276, 7892-7898

Quality Control Testing

p70 S6 kinase-2 activity Assay: p70S6 kinase-2 was assayed using 50µM 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-2 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.

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Purity Confirmation: The proteins were resolved through SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue. Arrow indicates the GST-fused p70S6K2.

Formulation: 20µg of recombinant protein in 80µl of 50mM Tris, pH7.4, 5mM DTT, 10% glycerol.

