

Certificate of Analysis

Recombinant Human AKT1 Expressed in Human Cells

AKT1HumaXpress

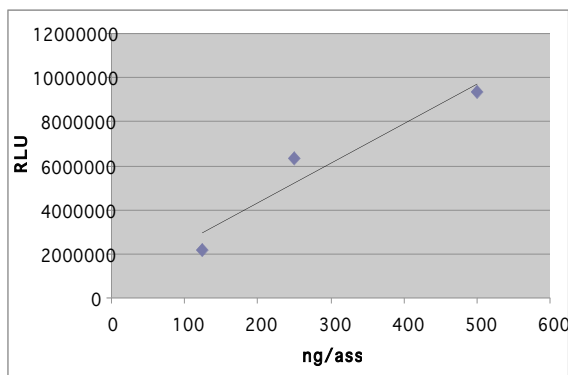
Cat #: HZ-2010a **Lot #:** CHI-0607

Product Description: Recombinant human full-length N-terminal GST-tagged AKT-1/PKB α (Accession No: NM005163) expressed in engineered human cells.

Specific Activity: 27U/mg, where one unit of kinase activity is equivalent to 1nmole of ATP consumed in the presence of 30 μ M Crosstide substrate peptide per minute at 30 °C with a final ATP concentration of 100 μ M.

Quality Control Testing

AKT1 Kinase activity Assay: Akt1/PKB α was assayed using 30 μ M Crosstide substrate peptide after stimulation. The Akt1 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 AKT1 Kinase protein. Arrow indicates the GST-fused AKT-1.

Formulation: 5 μ g of recombinant protein in 50 μ 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

Wang, Y., et al (1998), *Cell Growth & Differentiation*, 9, 513-522

Yuan, Z. Q., et al (2000), *Oncogene*, 19, 2324-2330

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