

Certificate of Analysis

Recombinant Human PTEN Expressed in Human Cells

PTEN^{HumaXpress}

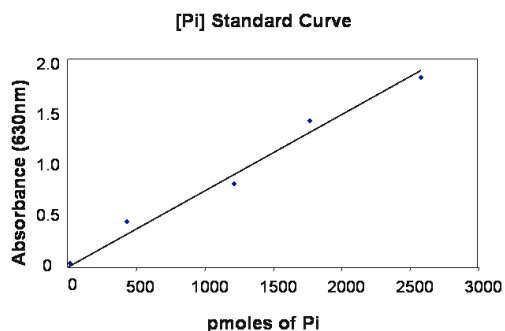
Cat #: HZ-4015 Lot #: CHI-041407SL

Product Description: Recombinant human full length PTEN (Accession No: NM_00314) with an N-terminal GST-tag, expressed in engineered human cells.

Specific Activity: 130U/mg. One Unit of activity is equivalent to 1nmole PIP₃ hydrolyzed per minute at 37°C.

Quality Control Testing

PTEN Phosphatase Assay: PTEN was assayed using PtdIns(3,4,5)P₃ as a substrate. The PTEN protein was incubated with its substrate at 37°C for 30 minute. 50µl of reaction mixture was added into 950ul Malachite Green reaction solution. Activity was monitored as absorbance increase at 630nm and calculated based on standard curve.



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

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

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

Reference

Li, J., et al (1997) *Science* 275: 1943-1946

Steck, P., et al., (1997) *Nature Genet.*

15: 356-362

Maehama T, Dixon JE. (1998) *J Biol Chem.*

273:13375-8

Di Cristofano, A.; Pandolfi, P. P. (2000)

Cell 100: 387-390

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