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PRODUCT DATASHEET

cPK Assay Kit

Cytosolic Protamine Kinase (cPK, GLO117) is a distinct insulin-stimulated protein kinase which phosphorylates eIF-4E, hnRNP protein A1 and numerous other cellular proteins. cPK is itself regulated by reversible phosphorylation. Phosphorylation by Myelin Basic Protein Kinases MBPK-1 (GLO113) and MBPK-2 (GLO114) activates cPK. Dephosphorylation by protein phosphatases PP2A₁ (GLO130), PP2A₂ (GLO131) and PP2A_C (GLO!32) inactivates the kinase.

GloboZymes cPK Assay Kit is useful for determining the activity of cPK or related protein serine/threonine kinase. It can be used to evaluate the effect of a test substance on cPK activity or to identify potential new physiological substrates of the enzyme. The kit provides for 50 assays. Assay is based on the reaction of cPK with protamine sulfate (GLO146) and [-32P]ATP. Kit includes directional insert, and contains solutions of MgATP, protamine sulfate, assay and dilution buffer, and purified cPK sample. Store solutions at -70° C. Avoid repeated thawing. [-32P]ATP and trichloroacetic acid are not provided with kit.

References:

- 1. Damuni Z et al (1989) J Biol Chem 264, 6412
- 2. Reddy et al (1990) J Biol Chem 265, 7748-7752
- 3. Guo H et al (1993) J Biol Chem 268, 15298
- 4. Amick GD et al (1992) Biochem J 287, 1019
- 5. Idriss H et al (1994) Biochemistry 33, 11382

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GloboZymes products are for basic science research purposes only. They are not intended for human drug, food additive, clinical or household use.

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