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EVIDENCE FOR A PROTEIN PHOSPHATASE OF M =35,000 AS A METALLO-ENZYME. Kvang-Jen Heiso, Wanda W.S. Chan and Heng-Chun Li. Dept. of Biochemistry, Mr. Sinai Sch. of Med., CUNY, New York, M.Y. 10020.

A divalent cation-independent protein phosphatase (M =35000) has been purified from cautine heart to apparent homogeneity as Judged by disc gel electrophoresis. The enzyme is nonspecific and is active fourth phosphorylase a, phosphorylated protein kinase, myosin, histone and casein. The enzyme can be rapidly inactivated at 30° by mM concentration of ATP or ADP (less effective) but not AMP, adenosine, EDTA or Pt. Cther nucleod side iriphosphates and PPt are as effective as ATP, Mg2+ prevents the enzyme from ATP inactivation. Pt which is a competitive inhibitor of the enzyme with respect to phosphoprotein

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