

Product Specification Sheet

Rat C-Reactive Protein (CRP)

Cat. # CRP16-N-10

Purified Rat CRP protein

SIZE: 10 ug

Pentraxins family of proteins acquired the name from their ability to form pentameric (or decameric) structures formed by non-covalent interactions. C-reactive protein (rat **CRP** or **PTX1**; mature chain 211 aa) nonglycosylated, ~24 kda monomer and ~118 kda pentamer) is a ubiquitous protein found in both vertebrates and invertebrates. Originally CRP was defined as a substance, observed in the plasma of patients with acute infections, that reacted with the C polysaccharide of the pneumococcus. It is one of the plasma proteins that are called acute phase reactants because of a pronounced rise in concentration after tissue injury or inflammation; in the case of CRP the rise may be 1000-fold or more. CRP is composed of 5 identical subunits. It is detectable on the surface of about 4% of normal peripheral blood lymphocytes. Acute phase reactant CRP is produced in the liver; those cells produce CRP detectable on lymphocytes.

Source of Antigen and Antibodies

Rat CRP was purified from pooled serum/fluids (>90%) using biochemical and immunoaffinity techniques. Purity is tested by RID, SDS-PAGE, and IEP.

CRP protein is supplied 0.1M Tris, 0.2M NaCl, 2 mM CaCl₂, pH 7.5, and 0.05% sodium azide (concn. 10 ug/50 ul or 200 ug/ml) in liquid or in powder form. Reconstitute powder in 50 ul water by gentle vortexing for 5-10 seconds and leaving the tube for 10-15 min at room temp. Store powder or solution in small aliquots at -20oC. Do not freeze and thaw.

Storage and Stability

Store frozen at -20oC or below. Lyophilized material should be reconstituted in water at a desired concn (0.1-1 mg/ml) and stock stored at -20oC or below. Avoid repeated freeze/thaw and store in suitable aliquots.

Stability: 3-6 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Biological activity: Not tested.

Western Blotting: load 50-500 ng/lane for reaction with appropriate antibodies.

ELISA: for coating at 1 ug/ml or as standards.

**This product is for In vitro research use only.*

Related material available from ADI

Mouse, Rat, Human, Monkey, Rabbit, and Dog CRP antibodies and ELISA Kits

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