

Product Specification Sheet

C-Reactive Protein (CRP)

Cat. # CRP15-N-100	Purified Human CRP protein	SIZE: 100 ug
Cat. # CRP15-N-500	Purified Human CRP protein	SIZE: 500 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 (**CRP or PTX1**; mature chain 206 aa; chromosome 1q21-23) 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, 21,500-molecular weight 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

Human CRP was purified from human serum/fluids (>95%) using biochemical and immunoaffinity techniques. Purity is tested by RID, SDS-PAGE, and IEP. All human source materials have tested negative for HIV 1, HIV 2, HIV Ag, HBsAg and HCV. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.

CRP protein is supplied 0.1M Tris, 0.2M NaCl, 2 mM CaCl₂, pH 7.5, and 0.05% sodium azide (concn. 1 mg/ml using RID; CRP (OD280nm, E 0.1%=1.7).

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: 6-12 months at –20oC or below.

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

Recommended Usage

Western Blotting: load 50-200 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

Rat and Dog CRP antibodies and reference controls, Human and Rat CR ELISA Kits

CRP15-N-100-500 71217A