

C-Reactive Protein, CRP Protein (Active)

Catalog# BNP1011

Lot # Check on the product label

Size 1 mg

Description

Purified human CRP protein.

Synonyms C-reactive protein, CRP, PTX1

Source Human fluids

Formulation Liquid

Concentration 3.5 mg/ml

Purity $\geq 95\%$ by SDS-PAGE

Application

ELISA

SDS-PAGE

Other applications have not been tested.

Storage buffer

Each vial contains 20mM Tris, 14mM NaCl, 2mM CaCl₂ (pH 7.5 \pm 0.2) with 0.1% NaN₃.

Storage & Expiration

Ship at 4°C. Upon receipt, aliquot and store at -20°C or -80°C for long term.

Avoid repeated freeze and thaw cycles.

Background

C-reactive protein (CRP) is a protein found in the blood, the levels of which rise in response to inflammation (i.e. C-reactive protein is an acute-phase protein). Its physiological role is to bind to phosphocholine expressed on the surface of dead or dying cells (and some types of bacteria) in order to activate the complement system via the C1Q complex. CRP is a member of the class of

acute-phase reactants, as its levels rise dramatically during inflammatory processes occurring in the body. This increment is due to a rise in the plasma concentration of IL-6, which is produced predominantly by macrophages as well as adipocytes.

Reference

1. Thompson D, Pepys MB, Wood SP (February 1999). "The physiological structure of human C-reactive protein and its complex with phosphocholine". *Structure* 7 (2): 169–77.
2. Pepys MB, Hirschfield GM (June 2003). "C-reactive protein: a critical update". *J. Clin. Invest.* 111 (12): 1805–12.
3. Lau DC, Dhillon B, Yan H, Szmitko PE, Verma S (May 2005). "Adipokines: molecular links between obesity and atherosclerosis". *Am. J. Physiol. Heart Circ. Physiol.* 288 (5): H2031–41.

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Chongqing Biospes Co., Ltd Tel: +86-23-67567091 Fax: +86-23-67745923

7F, Bldg B, High-tech Venture Park, # 107 Erlang Chuangye Rd, Jiulongpo District, Chongqing, 400039, China www.biospes.com