

BA1087**Human C-Reactive Protein (CRP) - Purified**

Alternate names:	C Reactive Protein, PTX1, Pentraxin-related
Quantity:	5 mg
Concentration:	Specific Protein: 2.67 mg/ml (RID using Behring standard). Total Protein: 2.69 mg/ml (OD280nm E0.1% = 1.7)
Background:	C-Reactive Protein is a major acute phase reactant synthesized primarily in the liver hepatocytes. It is a pentraxin (cyclic pentameric protein) compound of five identical nonglycosylated subunits of 206 amino acids each (m.w. 24 kDa), that are bound noncovalently to form the physiologic CRP molecule (m.w. 117.5 kDa). C Reactive Protein mediates activities associated with preimmune nonspecific host resistance. It is opsonic, an initiator of the classical complement cascade and an activator of monocytes/macrophages. CRP also binds to several nuclear components including chromatin, histones and snRNP, suggesting that it may play a role as a scavenger during cell necrosis. Studies have revealed that among other markers of inflammation, CRP shows the strongest association with cardiovascular events. Many clinical studies demonstrated that coronary mortality among patients with unstable angina and elevated CRP is significantly higher comparing with the patients without elevated CRP. Measurements of C reactive protein (hsCRP) in the patients with ischemic heart disease provide a novel method for detecting individuals at high risk of plaque rupture.
Uniprot ID:	P02741
NCBI:	NP_000558.2
GeneID:	1401
Species:	Human
Source:	Pleural fluid, (Human)
Format:	State: Liquid (0.2 µm filtered) purified fraction. Purity: >95% pure by SDS-PAGE (Reduced): Single band at 21 kD. IEP against Goat anti Human whole serum: no visible bands. Buffer System: 0.1M Tris, 0.2M Sodium Chloride, pH 7.5 +/- 0.2 containing 2mM CaCl ₂ and 0.09% Sodium Azide as a preservative.
Description:	Human C-Reactive Protein (CRP) Antigen Grade. Reactive with monospecific Goat anti Human CRP antibody.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Caution:	All human source materials have tested negative for HIV 1, HIV 2, 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.

General Readings:

1. Heuertz R.M., et al., (1999), "C-reactive Protein Inhibits Chemotactic Peptide-induced p38 Mitogenactivated Protein Kinase Activity and Human Neutrophil Movement", J Biol. Chem., 274 (25): 17968-17974