

Recombinant Full Length Human C-Reactive Protein, Tag Free

Cat. No. CRP-01HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human C-Reactive Protein (1-224aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-224aa
Description	The protein encoded by this gene belongs to the pentraxin family which also includes serum amyloid P component protein and pentraxin 3. Pentraxins are involved in complement activation and amplification via communication with complement initiation pattern recognition molecules, but also complement regulation via recruitment of complement regulators. The encoded protein has a calcium dependent ligand binding domain with a distinctive flattened beta-jellyroll structure. It exists in two forms as either a pentamer in circulation or as a nonsoluble monomer in tissues. It is involved in several host defense related functions based on its ability to recognize foreign pathogens and damaged cells of the host and to initiate their elimination by interacting with humoral and cellular effector systems in the blood. Consequently, the level of this protein in plasma increases greatly during acute phase response to tissue injury, infection, or other inflammatory stimuli. Elevated expression of the encoded protein is associated with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Tag	Non
Purity	≥99% by SDS-PAGE
Stability	3 years
Storage	2-8 centigrade
Storage Buffer	20mM Tris, 150 mM NaCl, 5mM CaCl ₂ , 1% protein stabilizer, pH 7.4.
Concentration	≥2.0 mg/mL (latex immunoturbidimetry)

GENE INFORMATION

Gene Name	CRP C-reactive protein [Homo sapiens (human)]
Official Symbol	CRP
Synonyms	CRP; C-reactive protein, pentraxin-related; C-reactive protein; pentraxin 1; PTX1; MGC88244; MGC149895;
Gene ID	1401
mRNA Refseq	NM_000567
Protein Refseq	NP_000558
MIM	123260
UniProt ID	P02741

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