

Product datasheet for **AR39128PU-L**

C-reactive protein (CRP) (19-224) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	C-reactive protein (CRP) (19-224) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MQTDMSRKAF VFPKESDTSY VSLKAPLTKP LKAFTVCLHF YTELSSTRGY SIFSYATKRQ DNEILIFWSK DIGYSFTVGG SEILFEVPEV TVAPVHICTS WESASGIVEF WVDGKPRVRK SLKKGTVGA EASIILGQEQ DSFGGNFEQS QSLVGDIGNV NMWDFVLSPD EINTIYLGGP FSPNVLNWRA LKYEYQGEVF TKPQLWP
Predicted MW:	23.3 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20mM Tris-HCl, pH 8.0, 2M Urea, 20%Glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human CRP was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000558</u>
Locus ID:	1401
UniProt ID:	<u>P02741</u>
Cytogenetics:	1q23.2
Synonyms:	PTX1, C Reactive Protein, Pentraxin-related


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Summary:

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. [provided by RefSeq, Aug 2020]

Protein Families:

Secreted Protein

Product images:
