

Recombinant Full Length Human CRP Protein, C-Flag-tagged

Cat. No. CRP-725HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CRP Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	<p>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 infection.</p>
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	23 kDa

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AA Sequence	MEKLLCFLVLTSLSHAFGQTDMSRKAFVFPKESDTSYVSLKAPLTKPLKAFTVCLHFY TELSSTRGYSIF SYATKRQDNEILIFWSKDIGYSFTVGGSEILFEVPEVTVAPVHICTS WESASGIVEFWVDGKPRVRKSLK KGYTVGAEEASILGQEQDSFGGNFEGSQSLVG DIGNVNMWDFVLSPDEINTIYLGGPFSPNVLNWRALKY EVQGEVFTKPQLWPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Secreted Protein
Full Length	Full L.

GENE INFORMATION

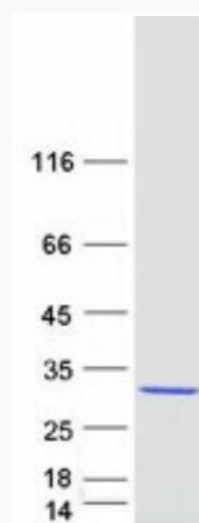
Gene Name	CRP C-reactive protein [Homo sapiens (human)]
Official Symbol	CRP
Synonyms	PTX1
Gene ID	1401

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mRNA Refseq	NM_000567.3
Protein Refseq	NP_000558.2
MIM	123260
UniProt ID	P02741



Coomassie blue staining of purified CRP protein.

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