

Recombinant Human CRP Protein, His-tagged

Cat. No. CRP-04H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human C-Reactive/CRP (19-224aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Species Human

Source HEK293

ProteinLength 19-224 a.a.

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 infection.

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Form	Liquid
Molecular Mass	24.1 kDa (215aa)
AA Sequence	QTDMSRKAFVFPKESDTSYVSLKAPLTKPLKAFTVCLHFYTELSSTRGYSIFS YATKR QDNEILIFWSKDIGYSFTVGGSEILFEVPEVTVAPVHICTSWESASGIVEFWVDGKPR VRKSLKKG YTVGAEASIILGQQDSFGGNFEGSQSLVGDIGNVNMWDFVLSPDEINT IYLGGPFSPNVLNWRALKYEVQGEVFTKPQLWP
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	CRP C-reactive protein [Homo sapiens (human)]
Official Symbol	CRP
Synonyms	CRP; C-reactive protein; PTX1; C-reactive protein; C-reactive protein, pentraxin-related; pentraxin 1
Gene ID	1401

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mRNA Refseq	NM_000567
Protein Refseq	NP_000558
MIM	123260
UniProt ID	P02741
SDS-PAGE	3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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