Human C-Reactive Protein /CRP Protein

Cat. No. CRP-HM101

Description

Source	Recombinant Human C-Reactive Protein /CRP Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Gln19-Pro224.
Accession	NP_000558.2
Molecular Weight	The protein has a predicted MW of 24.14 kDa. Due to glycosylation, the protein migrates to 25-27 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

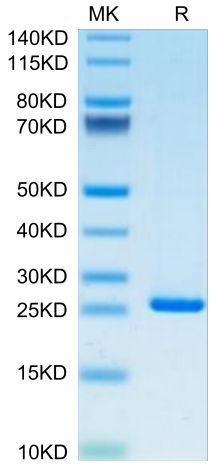
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM Tris, 300mM NaCl (pH 8.0). Normally 8% trehalose / 8% mannitol is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3-6 months after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

C-reactive protein (CRP) is a polypeptide molecule belonging to the family of pentraxins. CRP is synthesized primarily by the liver in response to certain pro-inflammatory cytokines. It plays an important role in innate immunity, opsonization by its properties, complement activation and immunoglobulins receptor binding. CRP is a protein of the acute systemic inflammation and is, therefore, a prime marker of inflammation.The CRP is quantified by immunonephelometry or immunoturbidimetry.

Assay Data

Tris-Bis PAGE



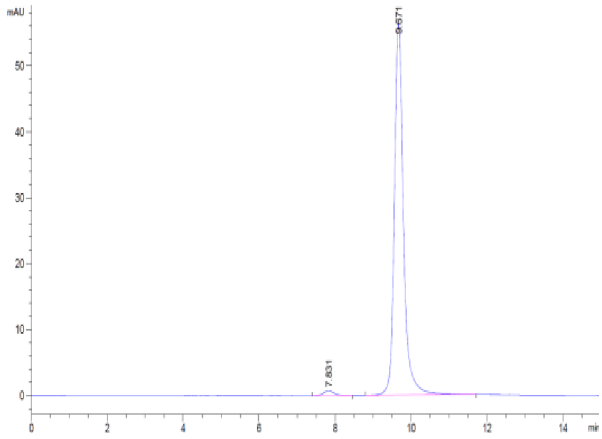
Human CRP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Human C-Reactive Protein /CRP Protein

Cat. No. CRP-HM101

Assay Data



The purity of Human CRP is greater than 95% as determined by SEC-HPLC.