

For Research Use Only

Recombinant Mouse C-Reactive Protein/CRP protein (hFc Tag)



Catalog Number: Eg0557

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
hFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse CRP protein His20-Ser225 (Accession# NP_031794.3) with a human IgG1 Fc tag at the C-terminus.

GeneID:

12944

Accession:

NP_031794.3

Predicted Molecular Mass:

49.1 kDa

SDS-PAGE:

48-52 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

C-reactive protein (CRP) is an acute-phase serum protein predominately synthesized by the liver in response to interleukin-6 (IL-6) during inflammation. The name of CRP derives from its ability to react with the C polysaccharide of *Streptococcus pneumoniae*. CRP is an annular, pentameric protein that belongs to the pentraxin family of proteins. CRP displays several functions associated with host defense: it promotes agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its calcium-dependent binding to phosphorylcholine. It is used mainly as a marker of inflammation.

References

1. Pepys MB, et al. (2003) C-reactive protein: a critical update. 111(12):1805-12.
2. Black S, et al. (2004) C-reactive Protein. 279(47):48487-90.

Synonyms

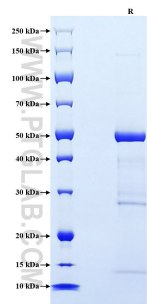
C reactive protein, C-reactive protein, C-Reactive Protein/CRP, Crp

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse CRP Protein was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.