

# Recombinant rat C-Reactive Protein/CRP protein

Catalog Number: ATGP3203

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

20-230aa

### UniProt No.

P48199

### NCBI Accession No.

NP\_058792

### Alternative Names

Crp, Aa1249, Ab1-341, Ab2-196, Ac1-114, Ac1262, Ac2-069, Ba2-693

## PRODUCT SPECIFICATION

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### Molecular Weight

24.1 kDa (217aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CRP, also known as c-reactive protein, displays several functions associated with host defense. It promotes agglutination, bacterial capsular swelling, phagocytosis and complement fixation through its calcium-dependent binding to phosphorylcholine and can interact with DNA and histones and may scavenge nuclear material released from damaged circulating cells. Recombinant rat CRP, fused to His-tag at C-terminus, was expressed in

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insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

HEDMSKQAFV FPGVSATAYV SLEAESKKPL EAFTVCLYAH ADVSRFSFIF SYATKTSFNE ILLFWTRGQG FSIAVGGPEI  
LFSASEIPEV PTHICATWES ATGIVELWLD GKPRVRKSLQ KGYIVGTNAS IILGQEQDSY GGGFDANQSL VGDIGDVNMW  
DFVLSPEQIN AVYVGRVFP NVLNWRALKY ETHGDVFIKP QLWPLTDCCE SHHHHHH

### General References

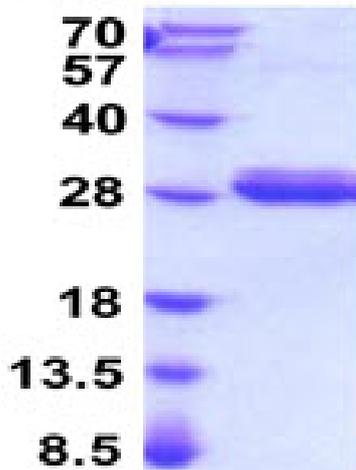
Rassouli M., et al. (1992) J. Biol. Chem. 267:2947-2954.

Diaz Padilla N., et al. (2003) Immunology. 109:564-571.

## DATA

### SDS-PAGE

(kDa)



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 $\mu$ g)