

Recombinant human C-Reactive/CRP protein

Catalog Number: ATGP3993

PRODUCT INFORMATION

Expression system

HEK293

Domain

19-224aa

UniProt No.

P02741

NCBI Accession No.

NP_000558.2

Alternative Names

C-reactive protein, C-reactive protein isoform 1, CRP, PTX1

PRODUCT SPECIFICATION

Molecular Weight

24.1 kDa (215aa)

Concentration

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

Formulation

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

Purity

> 90% by SDS - PAGE

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

Description

CRP, also known as C-reactive protein, is a member of the pentaxin family. This protein is found in the blood, its levels rise dramatically during inflammatory processes occurring in the body. This increment is due to a rise in the plasma concentration of IL-6, which is produced predominantly by macrophages as well as adipocytes. Its physiological role is to bind to lysophosphatidylcholine expressed on the surface of dead or dying cells (and some types of bacteria) in order to activate the complement system via C1q. It is also play another important role in innate immunity, as an early defense system against infections. It has been shown that high levels of CRP

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in humans is associated with an increased risk of cardiovascular diseases. Recombinant human C-Reactive/CRP, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<DGS>QTDMSRK AFVFPKESDT SYVSLKAPLT KPLKAFTVCL HFYTELSSTR GYSIFSYATK RQDNEILIFW SKDIGYSFTV
GGSEILFEVP EVT VAPVHIC TSWESASGIV EFWVDGKPRV RKSLKKGTV GAEASIILGQ EQDSFGGNFE GSQSLVGDIG
NVNMWDFVLS PDEINTIYLG GPFSPNVLNW RALKYEVQGE VFTKPQLWP<H HHHHH >

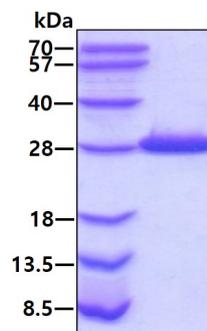
General References

Pepys, MB., et al (2003) J Clin Invest. 111:1805-1812.

Danesh, J. et al (2004) N. Engl. J. Med. 350:1387-1397.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain