

C-Reactive Protein, Rat (HEK293, His)

Cat. No.:	HY-P74219
Synonyms:	C-Reactive Protein; CRP; PTX1
Species:	Rat
Source:	HEK293
Accession:	P48199 (H20-S230)
Gene ID:	25419
Molecular Weight:	Approximately 30 kDa

PROPERTIES

AA Sequence	<pre> H E D M S K Q A F V F P G V S A T A Y V S L E A E S K K P L E A F T V C L Y A H A D V S R S F S I F S Y A T K T S F N E I L L F W T R G Q G F S I A V G G P E I L F S A S E I P E V P T H I C A T W E S A T G I V E L W L D G K P R V R K S L Q K G Y I V G T N A S I I L G Q E Q D S Y G G G F D A N Q S L V G D I G D V N M W D F V L S P E Q I N A V Y V G R V F S P N V L N W R A L K Y E T H G D V F I K P Q L W P L T D C C E S </pre>
Biological Activity	Immobilized Recombinant C-Reactive Protein/CRP at 1 µg/ml (100 µL/well) can bind Biotinylated Recombinant Human Fc gamma RIIA/CD32a Protein. The ED ₅₀ for this effect is 1.821 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	C-Reactive Protein (CRP) plays a multifaceted role in host defense, demonstrating several functions essential for immune responses. CRP promotes agglutination, bacterial capsular swelling, phagocytosis, and complement fixation by binding to phosphorylcholine in a calcium-dependent manner. Additionally, CRP exhibits the ability to interact with DNA and histones,
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suggesting a potential role in scavenging nuclear material released from damaged circulating cells. These diverse functions underscore CRP's involvement in various aspects of the immune system, contributing to both innate and adaptive immune responses, and highlight its significance as a key player in host defense mechanisms.

Caution: Product has not been fully validated for medical applications. For research use only.

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