

Recombinant Rat Crp Protein, His-tagged

Cat. No. Crp-358R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat CRP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Rat
Source	Insect Cells
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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	24.1kDa (217aa)28-40KDa (SDS-PAGE under reducing conditions.)
AA Sequence	HEDMSKQAFV FPGVSATAYV SLEAESKKPL EAFTVCLYAH ADVSRFSFISIF SYATKTSFNE ILLFWTRGQG FSIAVGGPEI LFSASEIPEVPTHCATWES ATGIVELWLD GKPRVRKSLQ KGYIVGTNAS IILGQEQDSY GGGFDANQSL VGDIGDVNMW DFVLSPEQIN AVYVGRVFPNVLNWRALKY ETHGDVFIKP QLWPLTDCCE SHHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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Purity	>95% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name	Crp C-reactive protein, pentraxin-related [<i>Rattus norvegicus</i>]
Official Symbol	Crp
Synonyms	CRP; C-reactive protein, pentraxin-related; C-reactive protein; C-reactive protein, petaxin related; C-reactive protein member of the pentraxin family; C-reactive protein, member of the pentraxin family; Aa1249; Ac1262; Ab1-341; Ab2-196; Ac1-114; Ac2-069; Ba2-693;
Gene ID	25419
mRNA Refseq	NM_017096
Protein Refseq	NP_058792
MIM	
UniProt ID	
Pathway	Classical antibody-mediated complement activation, organism-specific biosystem; Complement cascade, organism-specific biosystem; Creation of C4 and C2 activators, organism-specific biosystem; Immune System, organism-specific

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biosystem; Initial triggering of complement, organism-specific biosystem; Innate Immune System, organism-specific biosystem;

Function

cholesterol binding; low-density lipoprotein particle binding; low-density lipoprotein particle binding; metal ion binding; protein binding; protein homodimerization activity;

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