
Product Data Sheet

Product Name: CRP Rat
 Cat. No.: GP23235
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ptx1; C-reactive protein; Pentraxin1; C-Reactive Protein Pentraxin-Related.		
Amino Acid Sequence	HEDMSKQAFV FPGVSATAYV SLEAESKKPL EAFTVCLYAHADVSRFSIF SYATKTSFNE ILLFWTRGQG FSIAVGGPEI LFSASEIPEV PTHICATWES ATGIVELWLDGKPRVRKSLQ KGYIVGTNAS IILGQEQDSY GGGFDANQSL VGDIGDVNMW DFVLSPEQIN AVYVGRVFPNVLNWRALKY ETHGDVFIKP QLWPLTDCCE SHHHHHH.		
Formulation	CRP protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

CRP is an acute phase protein that correlates with inflammatory disease and is synthesized by hepatocytes during the acute phase response by certain cytokines (IL-1 and TNF Alpha and Beta). CRP levels increase dramatically (up to 1,000 fold) and serve as a useful marker of inflammation in such conditions as bacterial infection, rheumatoid arthritis, viral infections, transplantation rejection, meningitis, myocardial infarction, septicemia, osteomyelitis and others. CRP is also highly correlated to Serum Amyloid A levels.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CRP produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing

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

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217 amino acids (20-230 a.a.) and having a molecular mass of 24.1kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40 kDa). CRP is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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