Datasheet for ABIN1096161

CRP Protein (AA 19-224) (His tag)

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Overview

Quantity:	50 µg
Target:	CRP
Protein Characteristics:	AA 19-224
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRP protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human C-Reactive Protein/CRP (C-6His)
Sequence:	MQTDMSRKAF VFPKESDTSY VSLKAPLTKP LKAFTVCLHF YTELSSTRGY SIFSYATKRQ DNEILIFWSK DIGYSFTVGG SEILFEVPEV TVAPVHICTS WESASGIVEF WVDGKPRVRK SLKKGYTVGA EASIILGQEQ DSFGGNFEGS QSLVGDIGNV NMWDFVLSPD EINTIYLGGP FSPNVLNWRA LKYEVQGEVF TKPQLWPLEH HHHHH
Characteristics:	Recombinant Human C-Reactive Protein/CRP is produced by our E. coli expression system. The target protein is expressed with sequence (Q19-P224) of Human CRP.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CRP
Alternative Name:	C-Reactive-Protein (CRP Products)
Background:	C-reactive protein (CRP) belongs to the pentaxin family. CRP is a secreted protein found in plasma. It can binds two calcium ions per subunit.CRP can promotes phagocytosis, bacterial capsular swelling, complement fixation and agglutination through its calcium-dependent binding to phosphorylcholine which expressed on the surface of dead or dying cells. It can activate the complement system via the C1Q complex. CRP can interact with DNA and histones. In addition, CRP may scavenge nuclear material released from damaged circulating cells. Alternative Names: C-Reactive Protein, CRP, PTX1
Molecular Weight:	23.04 kDa
UniProt:	P02741
Pathways:	Carbohydrate Homeostasis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mMTris,2MUrea, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months