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Datasheet for ABIN1097317 APCS Protein (AA 20-223) (His tag)

Overview

Quantity:	50 µg
Target:	APCS
Protein Characteristics:	AA 20-223
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This APCS protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Serum Amyloid P-Component/Pentraxin 2/SAP (C-6His)
Sequence:	HTDLSGKVFV FPRESVTDHV NLITPLEKPL QNFTLCFRAY SDLSRAYSLF SYNTQGRDNE LLVYKERVGE YSLYIGRHKV TSKVIEKFPA PVHICVSWES SSGIAEFWIN GTPLVKKGLR QGYFVEAQP K IVLGQEQDSY G GKFDRSQSF VGEIGDLYMW DSVLPENIL SAYQGTPLPA NILDWQALNY EIRGYVIKP LVWVDHHHHH H
Characteristics:	Recombinant Human Serum Amyloid P-Component/SAP produced by transfected human cells is a secreted protein with sequence (His20-Val223) of human APCS fused with a polyhistidine tag at the C-terminus.
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:	APCS
Abstract:	APCS Products
Sub Type:	Fusionprotein
Background:	<p>Serum Amyloid P Component (SAP) is a monomeric 25 kDa secreted serum glycoprotein that belongs to the pentraxins family. The members of pentaxin superfamily be characterised by calcium dependent ligand binding and distinctive flattened beta-jellyroll structure similar to that of the legume lectins. SAP is a non-fibrillar component, it can interact with DNA and histones. It regulates the solubility of amyloid fibrils and protects them from degradation by proteolytic enzymes and phagocytic cells. SAP scavenge nuclear material released from damaged circulating cells. It has been proposed that SAP may function as an opsonin for a variety of ligands including autoantigens, apoptotic cells, chromatin and micro-organisms.</p> <p>Alternative Names: Serum Amyloid P-Component, SAP, 9.5S Alpha-1-Glycoprotein, APCS, PTX2</p>
Molecular Weight:	24.2 kDa
UniProt:	P02743

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months