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Datasheet for ABIN7197921

SERPINC1 Protein (His tag)



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Quantity:	50 μg
Target:	SERPINC1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPINC1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SerpinC1/AntithrombinIII/ATIII Protein (His Tag)(Active)
Sequence:	Met 1-Lys 464
Characteristics:	A DNA sequence encoding the human SerpinC1 (NP_000479.1) (Met 1-Lys 464) was expressed with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit thrombin (Sigma, Catalog # T4648)cleavage of a fluorogenic peptide substrate Boc-VPR-AMC.The IC50 value is < 5 nM.

Target Details

Target Details

Alternative Name:	SerpinC1/AntithrombinIII/ATIII (SERPINC1 Products)	
Background:	Background: SerpinC1, also known as antithrombin III (AT III), is a member of the serpin	
	superfamily of serine protease inhibitors, and has been found to be a marker for disseminated	
	intravascular coagulation (DIC) and to be of prognostic significance in septic patients. SerpinC1	
	synthesized in the liver is the principal plasma serpin of blood coagulation proteases and	
	inhibits thrombin and other factors such as Xa by the formation of covalently linked complexes.	
	Thus it is one of the most important coagulation inhibitors and the fundamental enzyme for the	
	therapeutical action of heparin. In common with SerpinA5 and D1, the inhibitory activity of	
	SerpinC1 undergoes a dramatic increase in the presence of heparin and other	
	glycosaminoglycans. ATIII mediates the promotion of prostaglandin release, an inhibitor of	
	leucocyte activation and downregulator of many proinflammatory cytokines. Antithrombin III	
	exerts anti-inflammatory properties in addition to its anti-coagulative mechanisms. In animal	
	models of sepsis, ATIII affected cytokine plasma concentrations with a decrease of pro-	
	inflammatory cytokines. The deficiency or functional abnormality of ATIII may result in an	
	increased risk of thromboembolic disease, such as deep vein thrombosis and pulmonary	
	embolism. In addition, it has been reported that SerpinC1 can alter or influence inflammatory	
	processes via inhibition of NF-κB activation or actin polymerization.	
	Synonym: AT3;AT3D;ATIII;MGC22579;SerpinC1;THPH7	
Molecular Weight:	50.5 kDa	
NCBI Accession:	NP_000479	
Application Details		
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Please refer to the printed manual for detailed information.	
Buffer:	Lyophilized from sterile PBS, pH 7.4	
Storage:	4 °C,-20 °C,-80 °C	
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.	
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted	