

Datasheet for ABIN7319024 **SERPING1 Protein (His tag)**



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	SERPING1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SERPING1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SerpinG1/C1IN Protein (His Tag)
Sequence:	Asn23-Ala500
Characteristics:	Recombinant Human Serine Protease Inhibitor-clade G1 is produced by our Mammalian expression system and the target gene encoding Asn23-Ala500 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	SERPING1
Alternative Name:	SerpinG1/C1IN (SERPING1 Products)
Background:	Background: As protease inhibitors, serpins have an array of functions including regulating blood clotting, the complement pathway, extracellular matrix remodeling, and cell motility.

Target Details

Serpin G1 is a serine protease inhibitor protein. It is the largest member among the serpin class of proteins. Remarkably, Serpin G1 has a 2-domain structure, unlike most family members. The C-terminal serpin domain is similar to other serpins, and this part of Serpin G1 provides the inhibitory activity. The N-terminal domain is not essential for Serpin G1 to inhibit proteinases and has no similarity to other proteins. The main function of Serpin G1 is the inhibition of the complement system to prevent spontaneous activation. Serpin G1 is an acute phase protein and circulates in blood at levels of around 0.25g/L, whose levels rise 2-fold during inflammation. Although named after its complement inhibitory activity, Serpin G1 also inhibits proteinases of the fibrinolytic, clotting, and kinin pathways. Most notably, Serpin G1 play a potentially crucial role in regulating important physiological pathways including complement activation, blood coagulation, fibrinolysis and the generation of kinins. It is also the most important physiological inhibitor of fXIa, chymotrypsin and plasma kallikrein.

Synonym: Plasma Protease C1 Inhibitor, C1 Inh, C1Inh, C1 Esterase Inhibitor, C1-Inhibiting Factor, Serpin G1, SERPING1, C1IN, C1NH,HAE1,HAE2

Molecular Weight:	53.9 kDa
UniProt:	P05155
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.
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 samples are stable at < -20°C for 3 months.