

Datasheet for ABIN7197962  
**SERPINB3 Protein (His tag)**



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## Overview

Quantity:	50 µg
Target:	SERPINB3
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPINB3 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human SerpinB3/SCCA1 Protein (His Tag)(Active)
Sequence:	Asn 2-Pro 390
Characteristics:	A DNA sequence encoding the human SERPINB3 (AAB20405.1) (Asn 2-Pro 390) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC, R&D Systems, Catalog # ES008. The IC <sub>50</sub> is < 5 nM.

## Target Details

Target:	SERPINB3
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## Target Details

Alternative Name: SerpinB3/SCCA1 ([SERPINB3 Products](#))

Background: SerpinB3, also known as SCCA-1, belongs to the serpin family. Serpins are a group of proteins with similar structures that were first identified as a set of proteins able to inhibit proteases. The acronym serpin was originally coined because many serpins inhibit chymotrypsin-like serine proteases. SERPINB3 is expressed in some hepatocellular carcinoma (at protein level). Its expression is closely related to cellular differentiation in both normal and malignant squamous cells. It seems to also be secreted in plasma by cancerous cells but at a low level. SERPINB3 significantly attenuates apoptosis by contrasting cytochrome c release from the mitochondria and by antichemotactic effect for NK cells. It may act as a protease inhibitor to modulate the host immune response against tumor cells and may be involved in the malignant behavior of squamous cell carcinoma cells.

Synonym: Serpin B3, Protein T4-A, Squamous cell carcinoma antigen 1, SCCA-1, serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3, serpin peptidase inhibitor, clade B (ovalbumin), member 3, Squamous cell carcinoma antigen 1, T4-A, SCCA1, HsT1196, SCC, SCCA-1, SCCA-PD

Molecular Weight: 46.7 kDa

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 20 % glycerol, 3 mM DTT

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.