

## Active Recombinant Human SERPINB3 Protein, His-tagged

Cat. No. SERPINB3-506H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SERPINB3 (Asn2-Pro390) protein with an N-terminal Met and 6-His tag was expressed in Sf 21.
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>ProteinLength</b>	2-390 a.a.
<b>Description</b>	<p>Serpin B3, also known as squamous cell carcinoma antigen-1 (SCCA-1), is a member of the serpin superfamily of serine protease inhibitors (1). Serpins primarily inhibit serine proteases and some are known to inhibit caspases and papain-like cysteine proteases (1). Serpin B3 belongs to the subgroup ovalbumin-related serpins which are involved in the regulation of apoptosis, inflammation, angiogenesis and embryogenesis (2). Serpin B3 was initially isolated from human cervical squamous cell tissue. It is a tumor marker for squamous cell carcinomas in various areas including the cervix, head, neck and lung (3). Unlike typical serpins, Serpin B3 shows inhibitory activity against papain-like lysosomal cysteine proteases Cathepsin K, L, and S, while lacking inhibitory activity against serine proteases (4).</p>
<b>Bio-activity</b>	Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC50 is <5 nM.
<b>Molecular Mass</b>	45 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>N-terminal Sequence Analysis</b>	Met
<b>Endotoxin</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 3 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, -20 to -70 centigrade under sterile conditions after opening.
<b>Storage Buffer</b>	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	SERPINB3 serpin family B member 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	SERPINB3
<b>Synonyms</b>	SERPINB3; serpin family B member 3; HsT1196; Protein T4-A; SCC; SCCA; SCCA1; SCCA1SCCA-1; SCCA-PD; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3; Serpin B3; serpin peptidase inhibitor, clade B (ovalbumin), member 3; Squamous cell carcinoma antigen 1; T4-A; SSCA1; SCCA-1; serpin B3; protein T4-A; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3; serpin peptidase inhibitor, clade B (ovalbumin), member 3; squamous cell carcinoma antigen 1
<b>Gene ID</b>	6317
<b>mRNA Refseq</b>	NM_006919

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Protein Refseq** NP\_008850

**MIM** 600517

**UniProt ID** P29508

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA