

Active Recombinant Human SERPINB3 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human SERPINB3 (Asn2-Pro390) protein with an N-terminal Met and 6-His tag was expressed in Sf 21.
Species	Human
Source	Sf21 Cells
ProteinLength	2-390 a.a.
Description	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).
Bio-activity	Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC. The IC50 is <5 nM.
Molecular Mass	45 kDa

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N-terminal Sequence Analysis	Met
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane
Storage	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.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Glycerol.
GENE INFORMATION	
Gene Name	SERPINB3 serpin family B member 3 [Homo sapiens (human)]
Official Symbol	SERPINB3
Synonyms	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
Gene ID	6317
mRNA Refseq	NM_006919

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Protein Refseq	NP_008850
MIM	600517
UniProt ID	P29508

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