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## Product Data Sheet

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Product Name: SERPINC1 Human, Sf9

Cat. No.: GP24546

Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Sf9, Baculovirus cells. |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | SERPINC1; AT3; AT3D; ATIII; THPH7; Antithrombin-III; Serpin C1.   |                    |                         |
| Amino Acid Sequence | ADPHGSPVDI CTAKPRDIPM NPMCIYRSPE KKATEDEGSE QKIPEATNRR<br>VWELSKANSR FATTFYQHLA DSKNDNDNIF LSPLSISTAF AMTKLGACND<br>TLQQLMEVFK FDTISEKTSD QIHFFFAKLN CRLYRKANKS SKLVSANRLF<br>GDKSLTFNET YQDISELVYG AKLQPLDFKE NAEQSRAAIN KWVSNKTEGR<br>ITDVIPSEAI NELTVLVLVN TIYFKGLWKS KFSPENTRKE LFYKADGESC<br>SASMMYQEGK FRYRRVAEGT QVLELPFKGD DITMVLILPK PEKSLAKVEK<br>ELTPEVLQEW LDELEEMMLV VHMPRFRIED GFSLKEQLQD MGLVDLFSPE<br>KSKLPGIVAE GRDDLVSDA FHKAFLEVNE EGSEAAASTA VVIAGRSLNP<br>NRVTFKANRP FLVFIREVPL NTIIFMGRVA NPCVKHHHHH H. |                    |                         |
| Formulation         | SERPINC protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.   |                    |                         |

**Introduction**

Serpin Peptidase Inhibitor, Clade C Member 1 (SERPINC1), which is a part of the serpin superfamily, is a plasma protease inhibitor. SERPINC1 inhibits thrombin and other activated serine proteases of the coagulation system, and regulates the blood coagulation cascade. SERPINC1 also inhibits Thrombin and Factors IXa, Xa and XIa. Deficiencies in SERPINC1 can cause ATIII deficiency, an autosomal dominant disease which might lead to a hereditary thrombophilia.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

SERPINC Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 441 amino acids (33-464a.a.) and having a molecular mass of 50.1kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). SERPINC is expressed with a 9 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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