

## Serpin G1 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P71297
<b>Synonyms:</b>	SERPIN G1; Plasma protease C1 inhibitor; C1 Inh; C1 esterase inhibitor; C1-inhibitingfactor; Serping1; C1nh
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	P97290 (A20-G504)
<b>Gene ID:</b>	12258
<b>Molecular Weight:</b>	92-95 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> A F S D P E A T S H   S T Q D P L E A Q A   K S R E S F P E R D   D S W S P P E P T V L P S T W P T T S V   A I T I T N D T M G   K V A N E S F S Q H   S Q P A A Q L P T D S P G Q P P L N S S   S Q P S T A S D L P   T Q A T T E P F C P   E P L A Q C S D S D R D S S E A K L S E   A L T D F S V K L Y   H A F S A T K M A K   T N M A F S P F S I A S L L T Q V L L G   A G D S T K S N L E   S I L S Y P K D F A   C V H Q A L K G F S S K G V T S V S Q I   F H S P D L A I R D   T Y V N A S Q S L Y   G S S P R V L G P D S A A N L E L I N T   W V A E N T N H K I   R K L L D S L P S D   T C L V L L N A V Y L S A K W K I T F E   P K K M M A P F F Y   K N S M I K V P M M   S S V K Y P V A Q F D D H T L K A K V G   Q L Q L S H N L S F   V I V V P V F P K H   Q L K D V E K A L N P T V F K A I M K K   L E L S K F L P T Y   L T M P H I K V K S   S Q D M L S V M E K L E F F D F T Y D L   N L C G L T E D P D   L Q V S A M K H E T   V L E L T E S G V E A A A A S A I S F G   R S L P I F E V Q R   P F L F L L W D Q Q   H R F P V F M G R V Y D P R G </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

Serpin G1 Protein, also known as C1-inhibitor, plays a significant role in regulating crucial physiological pathways including complement activation, blood coagulation, fibrinolysis, and the generation of kinins. It forms a proteolytically inactive complex with the C1r or C1s proteases, thus controlling the activation of the C1 complex. Serpin G1 Protein efficiently inhibits FXIIa and may also inhibit chymotrypsin and kallikrein. Additionally, it interacts with MASP1. By exerting its inhibitory effects, Serpin G1 Protein helps maintain the balance of these complex pathways, ensuring proper physiological functions and preventing excessive activation that could lead to pathological conditions.

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

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