

## Serpin D1 Protein, Mouse (HEK293, His)

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|-------------------|---|
| Cat. No.:         | HY-P71293   |
| Synonyms:         | Heparin cofactor 2; Heparin cofactor II; HC-II; Protease inhibitor leuserpin-2; Serpin D1 |
| Species:          | Mouse   |
| Source:           | HEK293  |
| Accession:        | P49182 (E24-S478)   |
| Gene ID:          | 15160   |
| Molecular Weight: | 70-90 kDa   |

### PROPERTIES

#### AA Sequence

|                     |                     |                     |                     |
|---------------------|---------------------|---------------------|---------------------|
| E Q L T N E N L T T | S F L P A N F H K E | N T V T N D W I P E | G E E D E D Y L D L |
| E K L L G E D D D Y | I Y I I D A V S P T | D S E S S A G N I L | Q L F Q G K S R I Q |
| R L N I L N A K F A | F N L Y R V L K D Q | A T T S D N L F I A | P V G I S T A M G M |
| I S L G L R G E T H | E E V H S V L H F R | D F V N A S S K Y E | V T T I H N L F R K |
| L T H R L F R R N F | G Y T L R S V N G L | Y I Q K Q F P I R E | D F K A A M R E F Y |
| F A E A Q E A N F P | D P A F I S K A N N | H I L K L T K G L I | K E A L E N I D P A |
| T Q M L I L N C I Y | F K G T W V N K F P | V E M T H N H N F R | L N E R E V V K V S |
| M M Q T K G N F L A | A N D Q E L D C D I | L Q L E Y V G G I S | M L I V V P R K L S |
| G M K T L E A Q L T | P Q V V E R W Q K S | M T N R T R E V L L | P K F K L E K N Y N |
| L V E V L K S M G I | T K L F N K N G N M | S G I S D Q R I A I | D L F K H Q S T I T |
| V N E E G T Q A A A | V T T V G F M P L S | T Q V R F T V D R P | F L F L V Y E H R T |
| S C L L F M G K V T | N P A K S           |                     |                     |

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2  $\mu$ m filtered solution of 50 mM Tris-HCl, 150 mM NaCl, 5% Mannitol, 0.06% Tween80, pH 8.0.

#### Endotoxin Level

<1 EU/ $\mu$ g, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/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).

#### Storage & Stability

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.

#### Shipping

Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

The Serpin D1 protein acts as a thrombin inhibitor, activated by glycosaminoglycans like heparin or dermatan sulfate. When dermatan sulfate is present, HC-II supersedes antithrombin III (AT) as the primary thrombin inhibitor. Additionally, Serpin D1 exhibits chymotrypsin inhibition, but this is glycosaminoglycan-independent. Its predominant expression is observed in the liver.

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

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