

## Serpin B3 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P71142
<b>Synonyms:</b>	Serpin B3; Protein T4-A; Squamous cell carcinoma antigen 1; SCCA-1; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 3; serpin peptidase inhibitor, clade B (ovalbumin), member 3; Squamous cell carcinoma antigen 1; T4-A; SCCA1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P29508 (M1-P390)
<b>Gene ID:</b>	6317
<b>Molecular Weight:</b>	41-50 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M N S L S E A N T K   F M F D L F Q Q F R   K S K E N N I F Y S   P I S I T S A L G M V L L G A K D N T A   Q Q I K K V L H F D   Q V T E N T T G K A   A T Y H V D R S G N V H H Q F Q K L L T   E F N K S T D A Y E   L K I A N K L F G E   K T Y L F L Q E Y L D A I K K F Y Q T S   V E S V D F A N A P   E E S R K K I N S W   V E S Q T N E K I K N L I P E G N I G S   N T T L V L V N A I   Y F K G Q W E K K F   N K E D T K E E K F W P N K N T Y K S I   Q M M R Q Y T S F H   F A S L E D V Q A K   V L E I P Y K G K D L S M I V L L P N E   I D G L Q K L E E K   L T A E K L M E W T   S L Q N M R E T R V D L H L P R F K V E   E S Y D L K D T L R   T M G M V D I F N G   D A D L S G M T G S R G L V L S G V L H   K A F V E V T E E G   A E A A A A T A V V   G F G S S P T S T N E E F H C N H P F L   F F I R Q N K T N S   I L F Y G R F S S P           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 0.02% Tween80, 4% Mannitol, pH 7.4.
<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

<b>Background</b>	The Serpin B3 protein emerges as a versatile participant in cellular regulation, potentially functioning as a papain-like
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cysteine protease inhibitor to modulate the host immune response against tumor cells. Its dual role extends to the inhibition of UV-induced apoptosis, accomplished by suppressing the activity of c-Jun NH(2)-terminal kinase (JNK1), thereby implicating Serpin B3 in cellular processes related to stress response. The protein's interaction with MAPK8/JNK1 further underscores its intricate involvement in signaling pathways, highlighting its potential as a multifaceted regulator with implications for immune modulation and apoptosis regulation.

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

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