

Serpin F1 Protein, Mouse (375a.a)

Cat. No.:	HY-P70584
Synonyms:	Pigment epithelium-derived factor; Pedf; Sdf3; Caspin; Serpin F1; Stromal cell-derived factor 3.
Species:	Mouse
Source:	E. coli
Accession:	P97298 (D43-T417)
Gene ID:	20317
Molecular Weight:	Approximately 40.0 kDa

PROPERTIES

AA Sequence	<pre> D P F F K V P V N K L A A A V S N F G Y D L Y R L R S S A S P T G N V L L S P L S V A T A L S A L S L G A E H R T E S V I H R A L Y Y D L I T N P D I H S T Y K E L L A S V T A P E K N L K S A S R I V F E R K L R V K S S F V A P L E K S Y G T R P R I L T G N P R V D L Q E I N N W V Q A Q M K G K I A R S T R E M P S A L S I L L L G V A Y F K G Q W V T K F D S R K T T L Q D F H L D E D R T V R V P M M S D P K A I L R Y G L D S D L N C K I A Q L P L T G S M S I I F F L P L T V T Q N L T M I E E S L T S E F I H D I D R E L K T I Q A V L T V P K L K L S F E G E L T K S L Q D M K L Q S L F E S P D F S K I T G K P V K L T Q V E H R A A F E W N E E G A G S S P S P G L Q P V R L T F P L D Y H L N Q P F L F V L R D T D T G A L L F I G R I L D P S S T </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Serpin F1, a neurotrophic protein, emerges as a key inducer of extensive neuronal differentiation in retinoblastoma cells. Notably, it exerts a potent inhibitory effect on angiogenesis. Distinguished by its unique conformational characteristics, Serpin F1 does not undergo the S (stressed) to R (relaxed) transition typical of active serpins, resulting in the absence of
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serine protease inhibitory activity. Furthermore, its interaction with PNPLA2 serves to stimulate the phospholipase A2 activity of PNPLA2, underscoring the multifaceted roles of Serpin F1 in cellular processes.

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

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