

Serpin F1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73372
Synonyms:	Pigment epithelium-derived factor; Pedf; Sdf3; Caspin; Serpin F1
Species:	Mouse
Source:	HEK293
Accession:	P97298 (Q20-T417)
Gene ID:	20317
Molecular Weight:	60-65 kDa

PROPERTIES

AA Sequence	<pre> MQALVLLLWT G EDPFFKVPVN LSVATAALSAL KELLASVTAP GTRPRI LTGN LSILL LGVAY MMSDPKAILR TQNLTMI EES GELTKSLQDM EWNEEGAGSS TGALLFIGRI ALLGHGSSQN KLAAAVSNFG SLGAEHRTE S EKNLKSASRI PRVDLQEINN FKGQWVTKFD YGLDSDLNCK LTSEFIHDID KLQSLFESPD PSPGLQPVR L LDPSST VPS SSEGSPV YDLYRLRSSA VIHRALYYDL VFERKLRVKS WVQAQMKGKI SRKTTLQDFH IAQLPLTGSM RELKTIQAVL FSKITGKPVK TFPLDYHLNQ PDSTGEPVEE SPTGNVLLSP ITNPD IHSTY SFVAPLEKSY ARSTREMP SA LDEDRTVRVP SIIFFLPLTV TVPKLLKLSFE LTQVEHRAAF PFLFVLRD TD </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse SERPINF1-His at 10 µg/mL (100 µL/well) can bind human GST-CSNK2A1 with a linear range of 0.31-2.5 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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

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 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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