

Recombinant Mouse Serpinf1

Cat. No. Serpinf1-85H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pigment epithelium-derived factor/SERPIN F1 is produced with our E. coli expression system. The target protein is expressed with sequence (Asp43-Thr417) of Mouse SERPIN F1.
Species	Mouse
Source	E.coli
ProteinLength	43-417 a.a.
Description	Serpin F1 is secreted Neurotrophic protein and belongs to the serpin family. Serpin F1 Highly expressed in the liver, gastric glandular mucosa and renal tubules. It is also expressed in the brain, heart, lung retina and testes. It induces extensive neuronal differentiation in retinoblastoma cells. It is potent inhibitor of angiogenesis. As it does not undergo the S (stressed) to R (relaxed) conformational transition characteristic of active serpins, exhibits no serine protease inhibitory activity.
Form	Lyophilized from a 0.2 µM filtered solution of PBS, pH 7.4
AA Sequence	MDPFFKVPVKNLAAAVSNFGYDLYRLRSSASPTGNVLLSPLSVATALSALSLSLGAEHR TESVIHRA LYYDLITNPDIHSTYKELLASVTAPEKNLKSASRIVFERKLRVKSSFVAPL EKSYGTRPRILTGN PRVDLQEINNWWQAQMKGKIARSTREMPALSILLSGVAYFKG QWVTKFDSRKTTLQDFHLDEDR TVRVPMMSDPKAILRYGLSDLNCKIAQLPLTGS MSIIFLPLTVTQNLTMIEESLTSEFIHDID RELKTIQAVLTPVKLKLSFEGELTKSLQD MKLQSLFESPDFSKITGKPVKLTQVEHRAAFEWNEE GAGSSPSPGLQPVRLLTFPLD

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YHLNQPFVLRDSTDGALLFIGRILDPSSST

Endotoxin	Less than 0.1 ng/g (1 IEU/g).
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 5 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 3X PBS. Please aliquot the reconstituted solution.

GENE INFORMATION

Gene Name	SERPINF1 serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1 [Homo sapiens]
Official Symbol	Serpinf1
Synonyms	SERPINF1; serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; PEDF, serine (or cysteine) proteinase inhibitor, clade F (alpha 2 antiplasmin, pigment epithelium derived factor), member 1; pigment epithelium-derived factor; EPC 1; PIG35; pigment epithelium derived factor; proliferation inducing protein 35; serpin F1; cell proliferation-inducing gene 35 protein; serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1; OI6; OI12; PEDF; EPC-1;
Gene ID	5176

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mRNA Refseq	NM_002615
Protein Refseq	NP_002606
MIM	172860
UniProt ID	P36955
Chromosome Location	17p13.3
Function	serine-type endopeptidase inhibitor activity;

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