

Product datasheet for **TP727217**

SERPINB1 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Leukocyte Elastase Inhibitor/Serpin B1/SERPINB1 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Pro379
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Note:	Recombinant Human Serine Protease Inhibitor-clade B1 is produced by our Mammalian expression system and the target gene encoding Met1-Pro379 is expressed with a 6His tag at the C-terminus.
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 3 months.
Stability:	12 months from date of despatch
Locus ID:	1992
UniProt ID:	P30740
Synonyms:	Leukocyte elastase inhibitor;SERPINB1; Monocyte/neutrophil elastase inhibitor; M/NEI; Peptidase inhibitor 2; PI-2
Summary:	SERPINB1 is a member of the serpin family and Ov-serpin subfamily. As protease inhibitors, serpins have an array of functions including regulating blood coagulation, fibrinolysis, the complement pathway, angiogenesis, inflammation, tumor suppression, extracellular matrix remodeling, and cell motility. SERPINB1 regulates the activity of the neutrophil proteases elastase, cathepsin G, proteinase-3, chymase, chymotrypsin, and kallikrein-3. Reactive bond 1 of SerpinB1 is specific for reaction with chymotrypsin-like protease such as cathepsin G, chymotrypsin or chymase. Reactive bond 2 of SerpinB1 is specific for reaction with elastase-like protease such as neutrophyl elastase, proteinase-3, pancreatic elastase or PSA. In addition, SERPINB1 also functions as a potent intracellular inhibitor of granzyme H.
Protein Families:	Druggable Genome



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