

32-8478: Recombinant Human Leukocyte Elastase Inhibitor/Serpin B1/SERPINB1 (C-6His)

Gene : SERPINB1

Gene ID : 1992

Uniprot ID : P30740

Description

Source: Human Cells.

MW :43.8kD.

Recombinant Human Serpin B1/Leukocyte elastase inhibitor is produced by our Mammalian expression system and the target gene encoding Met1-Pro379 is expressed with a 6His tag at the C-terminus. 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 neutrophil elastase, proteinase-3, pancreatic elastase or PSA. In addition, SERPINB1 also functions as a potent intracellular inhibitor of granzyme H.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl, pH7.4.

Storage condition : 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.

Amino Acid : MEQLSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRFQSLNA
DINKRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQTEGKIPELLAS
GMVDNMTKLVLVNAIYFKGNWKDFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQG
EELSMVILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSS
KADLSGMSGARDIFISKIVHKSFVEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLFFIRHNSSGSILFLGRF
SSPVDHHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

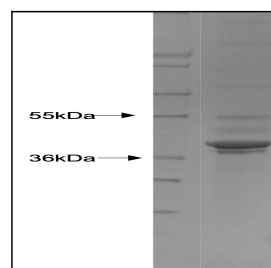


Figure 1: SDS-PAGE analysis of purified Recombinant Serpin B1 His Tag. 5 µg protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining