



**Recombinant Human Leukocyte Elastase Inhibitor/Serpin B1/SERPINB1 Protein(C-6His)**

**Cat.NO.: TP05462**

3th Edition

**Synonyms:**Leukocyte elastase inhibitor;SERPINB1; Monocyte/neutrophil elastase inhibitor; M/NEI; Peptidase inhibitor 2; PI-2

**Description:**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.

**Form:**PBS

**Molecular Weight:**43.8 kDa

**Sequences:**Met 1-Pro379

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.