



Recombinant Protein Technical Manual

**Recombinant Human SERPINB1/PI2 Protein
(Baculovirus, His Tag)**
RPES4862

Product Data:

Product SKU: RPES4862

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: P30740

Protein Information:

Molecular Mass: 44 kDa

AP Molecular Mass: 44 kDa

Tag: C-His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Leukocyte elastase inhibitor;SERPINB1; Monocyte/neutrophil elastase inhibitor; M/NEI; Peptidase inhibitor 2; PI-2; PI2; EI;ELANH2;HEL-S-27;HEL57;LEI;MNEI;

Immunogen Information:

Sequence: Met 1-Pro 379

Background:

SerpinB1 is an endogenous inhibitor of serine proteases recognized for its anti-inflammatory and host-protective properties. Serum SerpinB1 levels are elevated in patients with type 2 diabetes compared with that in healthy subjects and are negatively correlated with serum LDL-C. serpinB1 as an endogenous protein that can potentially be harnessed to enhance functional beta cell mass in patients with diabetes.