Recombinant Protein Technical Manual

Recombinant Human SerpinE1/PAI Protein (His Tag)

RPES4698

Product Data:

Product SKU: RPES4698

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P05121

Protein Information:

Molecular Mass: 43.8 kDa

AP Molecular Mass: 48 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

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

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM HAc-NaAc, 150mM NaCl, pH 4.0.

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

Application:

Synonyms: Plasminogen Activator Inhibitor 1; PAI; PAI; Endothelial Plasminogen Activator Inhibitor; Serpin E1; SERPINE1; PAI1; PLANH1;SERPINE1

Immunogen Information:

Sequence: Val24-Pro402

Background:

Serpins are a group of proteins with similar structures that were first identified as a set of proteins able to inhibit proteases. They are the largest and most diverse family of serine protease inhibitors which are involved in a number of fundamental biological processes such as blood coagulation, complement activation, fibrinolysis, angiogenesis, inflammation and tumor suppression and are expressed in a cell-specific manner. Serpin E1 is a secreted protein which belongs to the Serpin family. Serpin E1 acts as 'bait' for tissue plasminogen activator, urokinase, and protein C. Its rapid interaction with TPA may function as a major control point in the regulation of fibrinolysis. Defects in SERPINE1 are characterized by abnormal bleeding due to Serpin E1 defect in the plasma. High concentrations of Serpin E1 have been associated with thrombophilia which is an autosomal dominant disorder in which affected individuals are prone to develop serious spontaneous thrombosis.