



Recombinant Protein Technical Manual

Recombinant Human SerpinA4/SERPINA4 Protein (His Tag) RPES4555

Product Data:

Product SKU: RPES4555

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P29622

Protein Information:

Molecular Mass: 47.1 kDa

AP Molecular Mass:

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°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 a 0.2 µm filtered solution of 50mM TrisHCl, 150mM NaCl, 10mM NaCl, pH 8.0.

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

Application:

Synonyms: Kallistatin; Kallikrein Inhibitor; Peptidase Inhibitor 4; PI-4; Serpin A4; SERPINA4; KST; PI4

Immunogen Information:

Sequence: Gln21-Pro427

Background:

Serpin Peptidase Inhibitor, Clade A (α Antiproteinase, Antitrypsin), Member 4 (Serpin A4) is a member of the Serpin family. Serpin A4 exists as a monomer and some homodimers. Serpin A4 is expressed by the liver and secreted in plasma. Serpin A4 is a regulator of vascular homeostasis capable of controlling a wide spectrum of biological actions in the cardiovascular and renal systems. It can inhibit intracellular reactive oxygen species formation in cultured cardiac and renal cells. In addition, Serpin A4 has anti-inflammatory effect. Heparin blocks kallistatin's complex formation with tissue kallikrein and abolishes its inhibitory effect on tissue kallikrein's activity.