

Recombinant Human SerpinA4/SERPINA4 Protein (His Tag)

Catalog No. PKSH033033

Note: Centrifuge before opening to ensure complete recovery of vial contents.

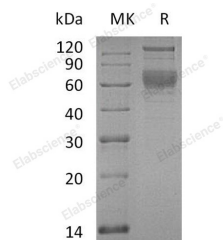
Description

Synonyms	Kallistatin;Kallikrein Inhibitor;Peptidase Inhibitor 4;PI-4;Serpina4;SERPINA4;KST;PI4
Species	Human
Expression Host	HEK293 Cells
Sequence	Gln21-Pro427
Accession	P29622
Calculated Molecular Weight	47.1 kDa
Observed molecular weight	60-80 KDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 Tris-HCl, 10mM CaCl ₂ , 150mM NaCl, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Serpin Peptidase Inhibitor, Clade A (α -1 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.