

## 32-7704: Recombinant Human Serpin A4/Kallistatin (C-6His)

**Gene :** SERPINA4

**Gene ID :** 5267

**Uniprot ID :** P29622

### Description

Source: Human Cells.

MW :47.1kD.

Recombinant Human Serpin A4 is produced by our Mammalian expression system and the target gene encoding Gln21-Pro427 is expressed with a 6His tag at the C-terminus. Serpin Peptidase Inhibitor, Clade A ( $\alpha$ -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.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g

**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of 50mM TrisHCl, 150mM NaCl, 10mM NaCl, pH 8.0.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** QLHVEHDGESCNSSSHQILETGEGSPSLKIAPANADFAFRFYLLIASETPGKNIFFSPLSISAAYAMLSLGACSH  
SRSQILEGLGFNLTESESDVHRGFQHLHTLNLPGHGLETRVGSALFLSHNLKFLAKFLNDTMAVYEAKLFHTN  
FYDVTGTIQLINDHVKKETRGKIVDLVSELKKDVLMLVNYIYFKALWEKPFISSRTTPKDFYVDENTTVRVPMMML  
QDQEHHWYLDHRYLPCSVLRMDYKGDATVFFILPNQGKMREIEEVLTPPEMLMRWNNLLRKRNFYKKLELHLPK  
FSISGSYVLDQILPRLGFTDLFSKWADLSGITKQKLEASKSFHKATLDVDEAGTEAAAATSFAIKFFSAQTNRHI  
LRFNRPFLLVIFSTSTQSVLFLGKVVDPTKPHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.