

**Recombinant Human Serpin A12****Catalog No: CU21**

**Description** Recombinant Human Serpin A12 is produced by our Mammalian expression system and the target gene encoding Leu21-Lys414 is expressed with a 10His tag at the C-terminus.

**Expression System** Human Cells

**Alternative name** Serpin A12; OL-64; Visceral adipose tissue-derived serine protease inhibitor; Vaspin; Visceral adipose-specific serpin; SERPINA12

**Accession No.** Q8IW75

**Quality Control** Purity: greater than 95% as determined by reducing SDS-PAGE.  
Endotoxin: less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.

**Formulation** Supplied as a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH7.5

**Shipping** The product is shipped on dry ice pack.  
Upon receipt, store it immediately at the temperature listed below.

**Storage** Store at ≤-70°C, stable for 6 months after receipt.  
Store at ≤-70°C, stable for 3 months under sterile conditions after opening.  
Please minimize freeze-thaw cycles.

**Background** Vaspin (Visceral Adipose-Specific SERPIN) is a newly described adipokine. Vaspin has three  $\beta$ -sheets, nine  $\alpha$ -helices, and one central loop; the structure is part of the set of distinctive features that are descriptive of Serpin family members. Vaspin is also a unique insulin sensitizing adipocytokine in obesity. A recent publication indicates that Vaspin mRNA expression in visceral fat is positively correlated with BMI and percent of body fat, and could be associated with parameters of obesity, insulin resistance, and glucose metabolism. These findings suggest a potential clinical use for Vaspin in ameliorating certain aberrations seen in the obesity metabolic syndrome.

**SDS-PAGE**