

32-7487: Recombinant Human Serpin A7/TBG (C-6His)(Discontinued)

Gene : SERPINA7

Gene ID : 6906

Uniprot ID : P05543

Description

Source: Human Cells.

MW :45.14kD.

Recombinant Human Serpin A7 is produced by our Mammalian expression system and the target gene encoding Ala21-Ala415 is expressed with a 6His tag at the C-terminus. Serpin A7 is a secreted protein which belongs to the Serpin family. As a 54 kDa protein, Serpin A7 is synthesized primarily in the liver and secreted in plasma. Genomically, Serpin A7 is a serpin, although it has no inhibitory function like many other members of this class of proteins. Serpin A7 binds thyroid hormone in circulation. It is one of three proteins (along with transthyretin and albumin) responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3) in the bloodstream. Of these three proteins, Serpin A7 has the highest affinity for T4 and T3, but is present in the lowest concentration. Despite its low concentration, Serpin A7 carries the majority of T4 in serum. Due to the very low serum concentration of T4 and T3 in the blood, Serpin A7 is rarely more than 25% saturated with its ligand. Unlike transthyretin and albumin, Serpin A7 has a single binding site for T4/T3. Serpin A7 tests are sometimes used in finding the reason for elevated or diminished levels of thyroid hormone, and defects in Serpin A7 are a cause of Serpin A7 deficiency.

Product Info

Amount : 10 µg / 50 µg

Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5% Threhalose, pH 7.2.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.
Storage condition : 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 : ASPEGKVTACHSSQPNATLYKMSSINADFAFNLYRRFTVETPDKNIFFSPVSISAALVMSFGACCSTQTIEIVETL
GFNLDTMPMVEIQHGFQHLICSLNFPKKELELQIGNALFIGKHLKPLAKFLNDVKLTLYETEVFSTDFSNISAAKQEI
NSHVEMQTKGKVVGLIQDLKPNTIMVLVNYIHFAQWANPFDPSKTEDSSSFLIDKTTTVQVPMMHQMEQYYH
LVDMELNCTVLQMDYSKNALALFVLPKEGQMESVEAAMSSKTLKKWNRLQKGWVDLFVPKFSISATYDLGAT
LLKMGIQHAYSENADFSGLTEDNGLKLSNAAHKAVLHIGKEGTEAAVPEVELSDQPENTFLHPHIIQIDRSFMLLI
LERSTRSILFLGKVVPTEAVDHHHHHH

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 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.