

Serpin A7 Protein, Human (HEK293, His)

Cat. No.:	HY-P71079
Synonyms:	Thyroxine-Binding Globulin; Serpin A7; T4-Binding Globulin; SERPINA7; TBG
Species:	Human
Source:	HEK293
Accession:	P05543 (A21-A415)
Gene ID:	6906
Molecular Weight:	55-65 kDa

PROPERTIES

AA Sequence	<div> <div> A S P E G K V T A C T P D K N I F F S P T D T P M V E I Q H K P L A K F L N D V T K G K V V G L I Q D S S S F L I D K T Y S K N A L A L F V V D L F V P K F S I D N G L K L S N A A L H P I I Q I D R S </div> <div> H S S Q P N A T L Y V S I S A A L V M L G F Q H L I C S L N K T L Y E T E V F S D L K P N T I M V L T T V Q V P M M H Q L P K E G Q M E S V S A T Y D L G A T L H K A V L H I G E K F M L L I L E R S T </div> <div> K M S S I N A D F A S F G A C C S T Q T F P K K E L E L Q I T D F S N I S A A K V N Y I H F K A Q W M E Q Y Y H L V D M E A A M S S K T L K L K M G I Q H A Y S G T E A A A V P E V R S I L F L G K V V </div> <div> F N L Y R R F T V E E I V E T L G F N L G N A L F I G K H L Q E I N S H V E M Q A N P F D P S K T E E L N C T V L Q M D K W N R L L Q K G W E N A D F S G L T E E L S D Q P E N T F N P T E A </div> </div>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Serpin A7, also known as thyroxine-binding globulin (TBG), is a glycoprotein that primarily functions as a carrier for thyroid hormones in the bloodstream. It specifically binds to and transports thyroxine (T4) and triiodothyronine (T3). TBG plays a
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crucial role in regulating the availability and distribution of thyroid hormones, which are essential for various physiological processes, including metabolism and growth. Mutations in the SERPINA7 gene can lead to alterations in TBG function, impacting thyroid hormone levels.

Caution: Product has not been fully validated for medical applications. For research use only.

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