

Serpin A6 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73657
Synonyms:	Corticosteroid-binding globulin; CBG; Transcortin; SERPINA6
Species:	Mouse
Source:	HEK293
Accession:	Q06770 (V23-A397)
Gene ID:	12401
Molecular Weight:	Approximately 50-80 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> V T D E D S S S H R D L A P T N V D F A F N L Y K R L V A L N S D K N T L I S P V S I S M A L A M L S L S T R G S T Q Y L E N L G F N M S K M S E A E I H Q G F Q Y L N S L L Q Q S D T G L E M N M G N V M F L L Q N L K L K D S F L A D T K H Y Y E S E A L T I P S K D W T K A G E Q I N N H V K N K T Q G K I E H V V S D L D S S A T L I L I N Y I F L K G I W K L P F S P E N T R E E D F Y V N E T S T V K V P M M V Q S G N I S Y F R D S A I P C Q M V Q M N Y V G N G T T F I I L P D Q G Q M D T V V A A L N R D T I D R W G K L M I P R Q M N L Y I P K F S M S D T Y D L Q D V L A D V G I K D L F T N Q S D F A D T T K D T P L T L T V L H K A M L Q L D E G N V L P A A T N G P P V H L P S E S F T L K Y N R P F I F L A F D K Y T W S S L M M S Q V M N P A </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. When Cortisol-BSA Conjugate is immobilized at 5 µg/mL, 100 µL/well can bind Recombinant Human Serpin A6. The ED ₅₀ for this effect is 5.447 µg/mL.
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 A6, also known as corticosteroid-binding globulin (CBG), is a glycoprotein that acts as a carrier for corticosteroids, including cortisol, in the bloodstream. CBG plays a crucial role in regulating the levels and availability of corticosteroids, which are important for various physiological processes, including stress response, immune function, and metabolism. It binds to cortisol with high affinity, influencing its distribution and activity in the body. Mutations or alterations in the SERPINA6 gene can impact CBG function and corticosteroid homeostasis.

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

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