Proteins



Product Data Sheet

Serpin A7 Protein, Mouse (HEK293, His)

Cat. No.: HY-P73656

Synonyms: Thyroxine-Binding Globulin; Serpin A7; T4-Binding Globulin; SERPINA7; TBG

Species: Source: HEK293

NP_808588.3 (A29-Q426) Accession:

Gene ID: 331535

Molecular Weight: Approximately 60-70 kDa

PROPERTIES

| AA Sequence | APHNSSEGKV TTCHLPQQNA TLYKMPSINA DFAFSLYRRL SVENPDLNIF FSPVSISVAL AMLSFGSGSS TQTQILEVLG FNLTDTPVTE LQQGFQHLIC SLNFPKNELE LQMGNAVFIG QQLKPLAKFL DDVKTLYETE VFSTDFSNVS AAQHKINSYV EKQTKGKIVG LIQGLKLNII MILVNYIHFR AQWANPFRVS KTEESSNFSV DKSTTVQVPM MHQLEQYYHY VDMELNCTVL QMDYSENALA LFVLPKEGHM EWVEAAMSSK TLKKWNYLLQ KGWVELFVPK FSISATYDLG STLQKMGMRD AFAESADFPG ITEDSGLKLS YAFHKAVLHI GEEGTKEGAS PEVGSLDQQE VPPLHPVIRL DRAFLLMILE KRTRSVLFLG KLVNPTKQ |
|---------------------|---|
| Biological Activity | Immobilized Thyroxine-BSA Conjugate at 2.5 μ g/mL (100 μ L/well) can bind Biotinylated Serpin A7. The ED ₅₀ for this effect is 1.317 μ g/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. |
| Reconsititution | It is not recommended to reconstitute to a concentration less than 100 μ g/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

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Background

The Serpin A7 protein is predicted to possess hormone binding activity as well as serine-type endopeptidase inhibitor activity. It is believed to be involved in various processes, including the negative regulation of endopeptidase activity, response to vitamin A, and thyroid hormone transport. This protein is predicted to be located in the extracellular region and active in the extracellular space. It is orthologous to human SERPINA7 (serpin family A member 7). In terms of expression, it shows biased expression in liver E18, liver E14.5, and two other tissues.

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

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