

Recombinant Human SERPINA7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SERPINA7-5703H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SERPINA7 MS Standard C13 and N15-labeled recombinant protein (NP_000345) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	There are three proteins including thyroxine-binding globulin (TBG), transthyretin and albumin responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3) in the bloodstream. This gene encodes the major thyroid hormone transport protein, TBG, in serum. It belongs to the serpin family in genomics, but the protein has no inhibitory function like many other members of the serpin family. Mutations in this gene result in TGB deficiency, which has been classified as partial deficiency, complete deficiency, and excess, based on the level of serum TBG. Alternatively spliced transcript variants encoding different isoforms have been found, but the full-length nature of these variants has not been determined.
Molecular Mass	46.3 kDa
AA Sequence	MSPFLYLVLVLGLHATIHCA SPEGKVTACHSSQPNATLYKMSSINADFAFNLYRRFT VETPDKNIFFSPVSISAALVMLSFGACCSTQTEIVETLGFNLDTMPMVEIQHGFQHLIC SLNFPKKELELQIGNALFIGKHLKPLAKFLNDVKTLTYETEVFSTDFSNISA AKQEINSH VEMQTKGKVVGLIQDLKPNTIMVLVNYIHFKAQWANPFDPSKTEDSSSFLIDKTTTVQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VPMMHQMEQYYHLVDMELNCTVLQMDYSKNALALFVLPKEGQMESVEAAMSSKTL
KKWNRLLQKGWVDLFVPKFSISATYDLGATLLKMGIQHAYSENADFSGLTEDNGLKL
SNAAHKAVLHIGEKGTEAAVPEVELSDQPENTFLHPHIIQIDRSFMLLILERSTRSILFL
GKVVNPTEATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SERPINA7 serpin family A member 7 [Homo sapiens (human)]

Official Symbol SERPINA7

Synonyms SERPINA7; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7; serine (or cysteine) proteinase inhibitor, clade A (alpha 1 antiproteinase, antitrypsin), member 7, TBG; thyroxine-binding globulin; alpha 1 antiproteinase; antitrypsin; thyroxin binding globulin; thyroxine binding globulin; serpin A7; T4-binding globulin; thyroxin-binding globulin; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7; TBG; FLJ17820;

Gene ID 6906

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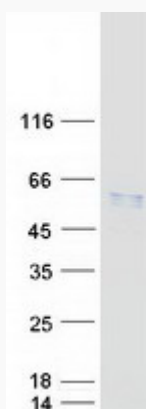
mRNA Refseq NM_000354

Protein Refseq NP_000345

MIM 314200

UniProt ID P05543

SDS-PAGE



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