

Recombinant Human SERPINA7 Protein, His-tagged

Cat. No. SERPINA7-417H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SERPINA7(Leu128~Ala415) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu128~Ala415
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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	33.8kDa
Identity	Reconstitute in PBS or others

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others

GENE INFORMATION

Gene Name	SERPINA7 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7 [Homo sapiens]
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;

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Gene ID	6906
mRNA Refseq	NM_000354
Protein Refseq	NP_000345
UniProt ID	P05543

