

Thyroxine-binding globulin Reference standard

Cat. No. SERPINA7-196H Lot. No. (See product label)

SPECIFICATION

Product Overview	The content of the reference standard is that, 30IU per ampoule is equivalent to the nominal ampoule content of 30 micrograms thyroxine-binding globulin, as estimated by physicochemical analyses. For further details of this Standard and its collaborative study see Bristow et al (1993).
Species	Human
Enzyme Unit	30 INTERNATIONAL UNITS per ampoule, by definition.
Usage	For practical purposes each ampoule contains the same quantity of TBG. The entire contents of each ampoule should be completely dissolved in an accurately measured amount of buffer solution. No attempt should be made to weigh out portions of the freeze-dried powder. The reconstitution buffer should contain carrier protein. For economy in use, it is recommended that the solution, without further dilution, is subdivided into several small containers and stored at -30 °C or below. To maintain full activity of such stored aliquots, it is suggested that the solution of ampoule contents, its subdivision and its freezing (using CO ₂ /ethanol or liquid N ₂) is done rapidly. A dilute solution prepared for use in an assay should be kept cool (eg. 4 °C) and should contain not less than 0.1% w/v carrier protein (free of proteolytic enzymes). Repeated freezing and thawing should be avoided. The material has not been sterilized and the ampoules contain no bacteriostat.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from

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which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. However, as with all materials of human origin, the preparation cannot be assumed to be free from infectious agents. The container and its contents should be used and discarded according to your own laboratory procedures. Such procedures probably will include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening the container to avoid cuts.

Storage

Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	SERPINA7 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7 [Homo sapiens];
Official Symbol	SERPINA7
Synonyms	TBG; thyroxine-binding globulin; serpin A7; T4-binding globulin; thyroxin-binding globulin; serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7
Gene ID	6906
mRNA Refseq	NM_000354
Protein Refseq	NP_000345
MIM	314200
UniProt ID	P05543

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Chromosome Location	Xq22.2
Function	hormone binding; serine-type endopeptidase inhibitor activity

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