Thyroglobulin(Human)

Cat. No. TG-4645H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Thyroglobulin is a glycosylated, polypeptide chain having a total molecular mass of 662 kDa.
Species	Human
Source	Human
Description	Thyroglobulin (TG) represents one of the main autoantigenic targets in autoimmune thyroid disease of humans. TG is a large globular dimeric glycoprotein with a total molecular weight of 660 kDa, which occupies a key precursor role in the biosynthesis of the thyroid hormones. Approximately 75% of the total protein content of the thyroid follicle consists of TG. The thyroid gland uses the Thyroglobulin in order to produce the thyroid hormones thyroxine (T4) and triiodothyronine (T3). Thyroglobulin is produced by the thyroid epithelial cells (thyrocytes) which form spherical follicles. Thyroglobulin is subsequently secreted and stored in the follicular lumen.
Form	Human Thyroglobulin is supplied in 16mM HEPES buffer pH-7.6, 240mM sodium chloride, and 20% glycerol.
Purity	Greater than 95% as determined by SDS-PAGE.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°Cfor longer periods of time. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

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Gene Name	TG thyroglobulin [Homo sapiens]
Official Symbol	TG
Synonyms	Thyroglobulin; TGN; AITD3; TG; TDH3
Gene ID	7038
mRNA Refseq	NM_003235
Protein Refseq	NP_003226
MIM	188450
UniProt ID	P01266
Chromosome Location	8q24
Function	Hormone activity

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