

Native Human TG

Cat. No. TG-31519TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Human Thyroglobulin purified from Human thyroid tissue, amino acids 20-2768 , predicted MWt 303kDa.
Species	Human
ProteinLength	2749 amino acids
Description	Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thyroid gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine as well as the storage of the inactive forms of thyroid hormone and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen. Mutations in this gene cause thyroid dysharmonogenesis, manifested as goiter, and are associated with moderate to severe congenital hypothyroidism. Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thyroiditis.
Molecular Weight	303.000kDa
Tissue specificity	Thyroid gland specific.
Form	Lyophilised:Use of phosphate buffer, pH >7.0 containing 0.15M NaCl is recommended.
Purity	by SDS-PAGE

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

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Storage buffer	Preservative: None Constituents: 0.02M Ammonium bicarbonate. May contain traces of buffer salts.
Storage	Store at +4°C.
Sequence Similarities	Belongs to the type-B carboxylesterase/lipase family. Contains 11 thyroglobulin type-1 domains.
GENE INFORMATION	
Gene Name	TG thyroglobulin [Homo sapiens]
Official Symbol	TG
Synonyms	TG; thyroglobulin; AITD3; TGN;
Gene ID	7038
mRNA Refseq	NM_003235
Protein Refseq	NP_003226
MIM	188450
Uniprot ID	P01266
Chromosome Location	8q24
Pathway	Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem;

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Function

NOT carboxylesterase activity; chaperone binding; hormone activity; NOT neurexin family protein binding; NOT receptor activity;

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