

Human Thyroglobulin

CATALOG NO:	P1025-20 20 µg P1025-100 100 µg
ALTERNATE NAMES:	Thyroglobulin, TGN, AITD3, TG, hTG
SOURCE:	Native, Isolated from human thyroid glands.
PURITY:	> 95% by SDS-PAGE
MOL. WEIGHT:	Human Thyroglobulin is a glycosylated, polypeptide chain having a total molecular mass of 662 kDa (331 kDa per subunit).
FORM:	Liquid
FORMULATION:	In 20mM HEPES buffer pH-7.6, 150mM NaCl and 40% Sucrose (w/v).
STORAGE CONDITIONS:	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.
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.

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