9051 Mira Mesa Blvd, #910094
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Thyroglobulin Human, Biotin

Thyroglobulin Human, Biotinylated
NTP0060

Product Overview

Name	Thyroglobulin Human, Biotin

Description

Thyroglobulin Human, Biotinylated

Accession (Primary)	P01266

Synonyms

Thyroglobulin, TGN, AITD3, TG.

Introduction

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. Patients with Hashimoto's thyroiditis or Graves' disease, frequently develop antibodies against Thyroglobulin. Tg-specific antibodies help in the diagnosis of the above diseases, however they also may be present in apparently healthy euthyroid individuals. Blood Thyroglobulin levels can be used as a tumor marker for certain kinds of thyroid cancer, and the may also be elevated in cases of Graves' disease.

Source

Native, Isolated from human thyroid glands.

Physical Appearance

Sterile Filtered solution.

Formulation

Human Thyroglobulin biotinylated is supplied at a 20mM HEPES buffer pH-7.6, 150mM NaCl and 40% Sucrose (w/v).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

Purity

Greater than 80% as determined by SDS-PAGE.

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Immunological functions

1. Binds IgG type human auto antibodies. 2. Auto antibodies to thyroglobulin recognize conformation dependent epitopes. 3.Functional Streptavidin based ELISA test (analysis of positive/negative samples.)

Precautions

Thyroglobulin Human, Biotin is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01266)