
Product Data Sheet

Product Name: Thyroglobulin Human, Biotin
Cat. No.: GP24832
Batch No.: 1

Product Data

Purity	>98%	Source	Native, Isolated from human thyroid glands.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thyroglobulin; TGN; AITD3; TG.		
Formulation	Human Thyroglobulin biotinylated is supplied at a 20mM HEPES buffer pH-7.6, 150mM NaCl and 40% Sucrose (w/v).		

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 they may also be elevated in cases of Graves' disease.

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.

Background

Human Thyroglobulin is a biotinylated, glycosylated, polypeptide chain having a total

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molecular mass of 662 kDa (331 kDa per subunit).

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