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# Thyroglobulin Canine

*Thyroglobulin Canine*
*NTP0058*

## Product Overview

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| Name | Thyroglobulin Canine |
| **Description** | |
| Thyroglobulin Canine | |
| Accession (Primary) | P15881 |
| **Synonyms** | |
| Thyroglobulin, TGN, AITD3, TG. | |
| **Source** | |
| Canine thyroid gland. | |
| **Physical Appearance** | |
| Sterile Filtered White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| Thyroglobulin was lyophilized with PBS, pH 7.4. | |
| **Stability** | |
| Lyophilized Thyroglobulin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Thyroglobulin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. | |
| **Purity** | |
| Greater than 90.0% as determined by SDS-PAGE. | |
| **Solubility** | |
| It is recommended to reconstitute the lyophilized Thyroglobulin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. | |
| **Background** | |
| Thyroglobulin's presence in the bloodstream, typically at low levels, is crucial for post-thyroidectomy monitoring and diagnosing thyroid disorders. Elevated serum thyroglobulin levels often indicate thyroid tissue remnants or recurrence of thyroid cancer. Thyroglobulin assays, including those utilizing recombinant thyroglobulin protein, serve as invaluable tools in assessing the effectiveness of thyroid cancer treatments, aiding clinicians in disease management decisions. In the realm of thyroid research, recombinant thyroglobulin finds extensive use as a research tool. Scientists utilize it to study thyroid hormone synthesis mechanisms, exploring the intricacies of iodination, | |

thyroglobulin proteolysis, and hormone release. Additionally, it serves as a model for investigating autoimmune thyroid diseases, aiding in the understanding of conditions like Hashimoto's thyroiditis and Graves' disease. Thyroglobulin human recombinant protein, with its multifaceted roles in thyroid hormone synthesis and disease diagnostics, stands as a testament to the complexity of thyroid physiology. Its structural intricacies and diagnostic significance underscore its pivotal position in the field of endocrinology. As our understanding of thyroid disorders deepens, thyroglobulin, both as a biological entity and a research tool, continues to illuminate the path towards effective diagnostic methods and therapeutic interventions, emphasizing its indispensable role in the intricate workings of the thyroid gland.

**Precautions**

Thyroglobulin Canine is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P15881 )

## Background

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