

Recombinant Bovine Thyroglobulin (TG)

Cat. No.: AP1C253

Product Type: Animal Proteins

Size: 500 µL

Product Overview

BioVenic's Recombinant Bovine Thyroglobulin (TG) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 303.2 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Bovine
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	303.2 kDa
Physical State	Lyophilized
Formulation	Tris-based buffer, 50 % glycerol

Target Information

Bovine thyroglobulin (TG) is a large dimeric glycoprotein that plays a central role in the synthesis and storage of thyroid hormones, thyroxine (T4) and triiodothyronine (T3), within the thyroid gland. It serves as a substrate for the enzymes that catalyze the iodination of tyrosine residues and the coupling of these iodinated tyrosines to form T4 and T3. TG is also crucial for the storage of iodine within the thyroid follicles, acting as a reservoir that can be drawn upon for hormone synthesis as needed.

Protein	Bovine Thyroglobulin (TG)
Gene ID	280706
UniProt ID	P01267

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.