

## TG

### Native Human Thyroglobulin

<b>Catalog No.</b>	CSI14829A CSI14829B	<b>Quantity:</b>	1.0 mg 10 mg
<b>Alternate Names:</b>	Tg		
<b>Description:</b>	Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thyroid gland. It acts as a substrate for the synthesis of thyroxine (T4) and triiodothyronine (T5) as well as the storage of the inactive forms of thyroid hormone and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen.		
<b>UniProt ID:</b>	P01266		
<b>Gene ID:</b>	7038		
<b>Source:</b>	Human Thyroid Gland		
<b>Molecular Weight:</b>	660 kDa		
<b>Formulation:</b>	Lyophilized from 20 mM ammonium bicarbonate. May contain traces of buffer salts.		
<b>Purity:</b>	≥ 96% by Native-PAGE		
<b>Extinction Coefficient:</b>	$E^{0.1\%}_{280\text{nm}} = 1.04$		
<b>Reconstitution:</b>	<b>Centrifuge prior to opening.</b> Reconstitute with PBS, pH > 7.0 at 0.1 - 1.0 mg/ml.		
<b>Handling:</b>	Handle as a potentially hazardous substance.		
<b>Storage &amp; Stability:</b>	Store as supplied at 2-8 °C. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C for up to 1 year.		
<b>Certification:</b>	Negative or non-reactive at the donor level for HIV 1 and 2 (antibodies or NAT), HCV (antibodies or NAT), and HBsAg. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at the Biosafety Level 2 (BSL 2) as recommended for any potentially infectious human serum or blood specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.		

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