

Product datasheet for **TP701072**

Thyroglobulin (TG) (NM_003235) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human thyroglobulin (TG), with C-terminal DDK tag, secretory expressed in HEK293 cells, 50ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC216216, encoding the region Asn20-Lys2768 of TG
Tag:	C-DDK
Predicted MW:	303 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003226
Locus ID:	7038
UniProt ID:	P01266
RefSeq Size:	8453
Cytogenetics:	8q24.22
RefSeq ORF:	8304
Synonyms:	AITD3; TGN



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Summary:

Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thyroid gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine 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. Mutations in this gene cause thyroid dysmorphogenesis, manifested as goiter, and are associated with moderate to severe congenital hypothyroidism. Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thyroiditis. [provided by RefSeq, Nov 2009]

Protein Families:

Druggable Genome

Protein Pathways:

Autoimmune thyroid disease

Product images:

Purified recombinant protein TG was analyzed by SDS-PAGE gel and Coomassie Blue Staining.