

Recombinant Human TG Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TG-6336H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TG MS Standard C13 and N15-labeled recombinant protein (NP_003226) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	304.8 kDa
AA Sequence	MALVLEIFTLLASICWVSANIFEYQVDAQPLRPCELQRETAFLKQADYVPQCAEDGSF QTVQCQNDGRSCWCVGANGSEVLGSRQPGRPVACLSFCQLQKQKILLSGYINSTD TSYLPQCQDSGDYAPVQCQDVQQVQCWCVDAEGMEVYGTRQLGRPKRCPRSCAIR NRRLHGVGDKSPPQCSAEGEFMPVQCKFVNTTMMIFDLVHSYNRFPDAFVTFSS

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FQRRFPEVSGYCHCADSQGRELAETGLELLLDEIYDTIFAGLDLPSTFTETTLYRILQ
RRFLAVQSVISGRFRCPTKCEVERFTATSFGHPYVPSCRRNGDYQAVQCQTEGPC
WCVDAQGKEMHGTRQQGEPPSCAEGQSCASERQQALSRLYFGTSGYFSQHDLFS
SPEKRWASPRVARFATSCPPTIKELFVDSGLLRPMVEGQSQQFSVSENLLKEAIRAI
FPSRGLARLALQFTTNPKRLQQNLFGGKFLVNVGQFNLSGALGTRGTNFNSQFFQQ
LGLASFLNGGRQEDLAKPLSVGLDSNSSTGTPEAAKKDGTMNKPTVGSFGFEINLQ
ENQNALKFLASLLELPEFLLFLQHAISVPEDVARDLGDVMETVLSSQTCEQTPERLFV
PSCTTEGSYEDVQCFSGECWCVNSWKGELPGSRVRGGQPRCPTDCEKQRRMQ
SLMGSPAGSTLFVPACTSEGHFLPVQCFNSECYCVDAEGQAIPGTRSAIGKPKKC
PTPCQLQSEQAFLRTVQALLSNSSMLPTLSDTYIPQCSTDGQWRQVQCNGPPEQV
FELYQRWEAQNKGQDLTPAKLLVKIMSYREAASGNFSLFIQSLYEAGQQDVFPVLS
QYPSLQDVPLAALEGKRPQPRENILLEPYLFWQILNGQLSQYPGSYSDFSTPLAHFD
LRNCWCVDEAGQELEGMRSEPSKLPTCPGSCEEAKLRVLQFIRETEEIVSASNSSR
FPLGESFLVAKGIRLRNEDLGLPPLFPPREAFAEQFLRGSDYAIRLAAQSTLSFYQRR
RFSPDDSAGASALLRSGPYMPQCDAFGSWEPVQCHAGTGHCWCVDEKGGFIPGS
LTARSLQIPQCPTTCEKSRTSGLLSSWKQARSQENPSPKDLFVPACLETGEYARLQ
ASGAGTWCVDPASGEELRPGSSSSAQCPSLCNVLKSGVLSRRVSPGYVPACRAED
GGFSPVQCDQAQGSCWCVMDSGEEVPGTRVTGGQPACESPRCPLPFNASEVVG
GTILCETISGPTGSAMQQCQLLCRQGSWSVFPPGPLICSLESGRWESQLPQPRACQ
RPQLWQTIQTQGHFQLQLPPGKMCADYADLLQTFQVFILDELTARGFCQIQVKTFG
TLVSIPVCNNSSVQVGCLTRERLGVNVTWKSRLDIPVASLPDLHDIERALVGKDLLG
RFTDLIQSGSFQLHLDSKTFPAETIRFLQGDHFGTSPRTWFGCSEGFYQVLTSEASQ
DGLGCVKCPEGSYSQDEECIPCVGFYQEAGSLACVPCPVGRTTISAGAFSQTHC
VTDCQRNEAGLQCDQNGQYRASQKDRGSGKAFCVDGEGRRLPWWETEAPLEDS
QCLMMQKFEKVPESKVIFDANAPVAVRSKVPDSEFPVMQCLTDCTEDEACSFFTVS
TTEPEISCDFYAWTSDNVACMTSDQKRDALGNSKATSFGLRCQVKVRSHGQDSP
AVYLKKGQGSTTTTLQKRFEPTGFQNMLSGLYNPIVFSASGANLTAHLFCLLACDRD
LCCDGFVLTQVQGGAIICGLLSSPSVLLCNVKDWM DPSEAWANATCPGVTYDQESH
QVILRLGDQEFIKSLTPLEGTQDTFTNFQQVYLWKDSMDGSRPESMGCRKDTVPRP
ASPTAAGLTTELFSPVDLNQVIVNGNQSLSSQKHWLFFKHLFSAQQANLWCLSRCVQ

EHSFCQLAEITESASLYFTCTLYPEAQVCDDIMESNAQGCRLILPQMPKALFRKKVIL
 EDKVKNFYTRLPPFQKLMGISIRNKVPMSEKISNGFFECERRCDADPCCTGFGFLNV
 SQLKGGEVTCLTLNSLGIQMCSEENGGAWRILDCGSPDIEVHTYPFGWYQKPIAQN
 NAPSFCPLVVLPSLTEKVSLSWQSLALSSVVVDPSIRHFDVAHVSTAATSNFSAVR
 DLCLSECSQHEACLITTLQTQPGAVRCMFYADTQSCTHSLQGQNCRLLLREEATHIY
 RKPGISLLSYEASVPSVPISTHGRLLGRSQAIQVGTSWKQVDQFLGVPYAAPPLAER
 RFQAPEPLNWTGSDASKPRASCWQPGTRTSTSPGVSEDCLYLVNFIQNVAPNA
 SVLVFFHNTMDREESEGWPAIDGSFLAAVGNLIVVTASYRVGVFGFLSSGSGEVSG
 NWGLLDQVAALTWVQTHIRGFGGDPRRVSLAADRGGADVASIHLTARATNSQLFR
 RAVLMGGSALSPAAVISHERAQQAIALAKEVSCPMSSSQEVVSLRQKPANVLND
 AQTKLLAVSGPFHYWGPVIDGHFLREPPARALKRSLWVEVDLLIGSSQDDGLINRAK
 AVKQFEESRGRRTSSKTAFYQALQNSLGGEDSDARVEAAATWYYSLEHSTDDYASF
 SRALENATRDYFIICPIIDMASAWAKRARGNVFMYHAPENYGHGSLELLADVQFALG
 LPFYPAYEGQFSLEEKSLSLKIMQYFSHFIRSGNPNYPYEF SRKVPTFATPWPDPFVP
 RAGGENYKEFSELLPNRQGLKKADCSFWSKYISSLKTSADGAKGGQSAESEEEELT
 AGSGLREDLLSLQEPGSKTYSKSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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Gene Name	TG thyroglobulin [Homo sapiens (human)]
Official Symbol	TG
Synonyms	TG; thyroglobulin; TGN; AITD3; thyroglobulin
Gene ID	7038
mRNA Refseq	NM_003235
Protein Refseq	NP_003226
MIM	188450
UniProt ID	P01266
SDS-PAGE	