

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

**Cat. No.** TRH-2186H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | TRH MS Standard C13 and N15-labeled recombinant protein (NP_009048) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes a member of the thyrotropin-releasing hormone family. Cleavage of the encoded proprotein releases mature thyrotropin-releasing hormone, which is a tripeptide hypothalamic regulatory hormone. The human proprotein contains six thyrotropin-releasing hormone tripeptides. Thyrotropin-releasing hormone is involved in the regulation and release of thyroid-stimulating hormone, as well as prolactin. Deficiency of this hormone has been associated with hypothalamic hypothyroidism. |
| <b>Molecular Mass</b>   | 27.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MPGPWLLLALALTLNLTGVPGGRAQPEAAQQEAVTAAEHPLDDFLRQVERLLFLR<br>ENIQRLLQGDQGEHSASQIFQSDWLSKRQHPGKREEEEEEGVEEEEEEGGAVGPH<br>KRQHPGRREREASWSVDVTQHKRQHPGRRSPWLAYAVPKRQHPGRRRLADPKAQ<br>RSWEEEEEEEEEREEDLMPEKRQHPGKRALGGPCGPQGAYGQAGLLLGLLDDLRS<br>QGAEKQRQHPGRRAAWVREPLEETRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                            |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

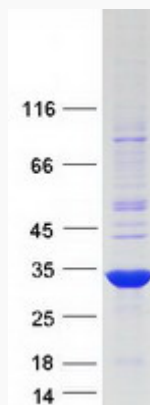
## GENE INFORMATION

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| <b>Gene Name</b>       | TRH thyrotropin-releasing hormone [ Homo sapiens (human) ]                 |
| <b>Official Symbol</b> | TRH                                                                        |
| <b>Synonyms</b>        | TRH; thyrotropin-releasing hormone; prothyroliberin; MGC125964; MGC125965; |
| <b>Gene ID</b>         | 7200                                                                       |
| <b>mRNA Refseq</b>     | NM_007117                                                                  |
| <b>Protein Refseq</b>  | NP_009048                                                                  |
| <b>MIM</b>             | 613879                                                                     |
| <b>UniProt ID</b>      | P20396                                                                     |

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**SDS-PAGE**

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