



# LKT Laboratories, Inc.

## Thyrotropin-releasing Hormone

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

Product ID T3100

CAS No. 24305-27-9

#### Chemical Name

Synonym TRH, Thyrotropin-releasing factor, TRF, Protirelin, Thyroliberin

Formula  $C_{16}H_{22}N_6O_4$

Formula Wt. 362.4

Melting Point

Purity  $\geq 95\%$

Solubility Soluble in DMSO.

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** Thyrotropin-releasing hormone (TRH) is an endogenous tripeptide amide that acts as a neurotransmitter and neurohormone. TRH regulates hypothalamic-pituitary-adrenal (HPA) and estrogenic signaling pathways. TRH exhibits immunomodulatory and neuroprotective activities. TRH prevents oxidative stress, caspase-mediated apoptosis, glutamate toxicity, and neuroinflammation. Additionally, TRH stimulates epidermal regeneration in ex vivo models, activating wound healing. TRH activates the TRH receptor.

H-pGlu-His-Pro-NH<sub>2</sub>

### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
T3100	5 mg	\$63.00
T3100	10 mg	\$107.00
T3100	25 mg	\$189.00

**References** Fekete C, Lechan RM. Central Regulation of Pituitary-Thyroid Axis Under Physiological and Pathophysiological Conditions. *Endocr Rev.* 2013 Dec 4;er20131087. [Epub ahead of print]. PMID: 24423980.

Pekary AE, Sattin A. Increased TRH and TRH-like peptide release in rat brain and peripheral tissues during proestrus/estrus. *Peptides.* 2013 Dec 1;52C:1-10. PMID: 24296042.

Daimon CM, Chirdon P, Maudsley S, et al. The role of Thyrotropin Releasing Hormone in aging and neurodegenerative diseases. *Am J Alzheimers Dis (Columbia).* 2013;1(1). PMID: 24199031.

Meier NT, Haslam IS, Pattwell DM, et al. Thyrotropin-releasing hormone (TRH) promotes wound re-epithelialisation in frog and human skin. *PLoS One.* 2013 Sep 2;8(9):e73596. PMID: 24023889.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.