



LKT Laboratories, Inc.

Thyrotropin-releasing Hormone

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Product Information

Product ID T3101

CAS No. 24769-58-2

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.

H-pGlu-His-Pro-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T3101	5 mg	\$63.00
T3101	10 mg	\$107.00
T3101	25 mg	\$189.00

Store Temp -20°C

Ship Temp Ambient

Description Thyrotropin-releasing hormone (TRH) is an endogenous tripeptide 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, increasing wound healing. TRH activates the TRH receptor.

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.