
Product Data Sheet

Product Name: TRH Human
 Cat. No.: GP21316
 Batch No.: 1

Product Data

Purity	>98%	Source	
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Thyroliberin; TRH; MGC125964; MGC125965; Protirelin; TRF.		
Amino Acid Sequence	Pyr-His-Pro-NH ₂ .		
Solubility	It is recommended to reconstitute the lyophilized Thyroliberin in sterile 18MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The TRH was lyophilized with no additives.		

Introduction

Thyrotropin-releasing hormone (TRH), also called thyrotropin-releasing factor (TRF), thyroliberin or protirelin, is a tripeptide hormone that stimulates the release of thyroid-stimulating hormone and prolactin by the anterior pituitary. TRH is produced by the hypothalamus, near the paraventricular nucleus. It travels across the median eminence to the pituitary via the hypophyseal portal system. It is released from cells called thyrotropes. In addition to the brain, TRH can also be detected in other areas of the body including the gastrointestinal system and pancreatic islets. Protirelin stimulates the secretion of pituitary thyroid stimulating hormone from the anterior pituitary and has been shown that protirelin increases secretion of prolactin. Protirelin is identified as 5-oxo-L-prolyl-L-histidyl-L-proline amide. It is a synthetic tripeptide that is believed to be structurally identical to the naturally-occurring thyrotropin-releasing hormone produced by the hypothalamus.

Stability

Lyophilized Protirelin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TRH should be stored at 4°C between 2-7

Caution: Product has not been fully validated for medical applications. For research use only.

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days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Thyrotropin Releasing Hormone Human C₁₆H₂₂N₆O₄ has a molecular mass of 362.4 Dalton. The TRH is purified by proprietary chromatographic techniques.

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