

## Prepro-TRH-(160-169)

<b>Cat. No.:</b>	HY-P3969
<b>CAS No.:</b>	122018-91-1
<b>Molecular Formula:</b>	C <sub>54</sub> H <sub>75</sub> N <sub>11</sub> O <sub>18</sub> S
<b>Molecular Weight:</b>	1198.3
<b>Sequence Shortening:</b>	SFPWMESDVT
<b>Target:</b>	Thyroid Hormone Receptor
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Prepro-TRH-(160-169) is one of the connecting peptides of thyrotropin-releasing hormone prohormone (pro-TRH), potentiates TRH-induced thyrotropin (TSH) release <sup>[1]</sup> .
<b>In Vitro</b>	<p><b>Caution: Product has not been fully validated for medical applications. For research use only.</b></p> <p>In primary cultures of rat anterior pituitary cells, Prepro-TRH-(160-169) (Ps4) is able to increase intracellular Ca<sup>2+</sup> concentration ([Ca<sup>2+</sup>]<sub>i</sub>) rapidly, in 15 s<sup>[2]</sup>.</p> <p>Tel: 609-228-6992 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com        Address: 1 Deer Park Dr., Suite Q, Monroeth Junction, NJ 08852, USA        MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
<b>In Vivo</b>	<p>In urethane-anesthetized rats, Prepro-TRH-(160-169) (Ps4; 100 ng, 150 ng and 200 ng; injected into dorsal motor nucleus (DMN)) potentiates TRH in the DMN-evoked gastric acid secretion through an action that is peptide and site specific<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. H Yang, et al. Prepro-TRH-(160-169) potentiates gastric acid secretion stimulated by TRH microinjected into the dorsal motor nucleus of the vagus. *Neurosci Lett.* 1994 Jun 6;174(1):43-6.
- [2]. J P Roussel, et al. Somatostatin blocks the potentiation of TRH-induced TSH secretion from perfused pituitary fragments and the change in intracellular calcium concentrations from dispersed pituitary cells elicited by prepro-TRH (PS4) or by tri-iodothyronine. *J Mol Endocrinol.* 1997 Aug;19(1):87-97.