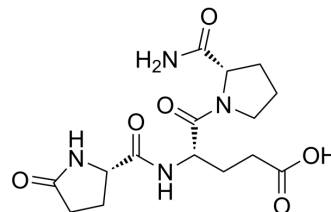


(Glu2)-TRH

Cat. No.:	HY-P3960
CAS No.:	85541-78-2
Molecular Formula:	C ₁₅ H ₂₂ N ₄ O ₆
Molecular Weight:	354.36
Sequence Shortening:	Glp-EP-NH2
Target:	Endogenous Metabolite; Thyroid Hormone Receptor
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	Sealed storage, away from moisture and light
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (282.20 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.8220 mL	14.1099 mL	28.2199 mL
	5 mM		0.5644 mL	2.8220 mL	5.6440 mL
	10 mM		0.2822 mL	1.4110 mL	2.8220 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(Glu2)-TRH, a metabolically stable analogue of Thyrotropin-releasing hormone (TRH; HY-P0002), is a negative modulator for the cholinergic effect of TRH in the mouse brain. (Glu2)-TRH significantly attenuates TRH-induced hippocampal extracellular acetylcholine release. (Glu2)-TRH is not metabolized by thyroliberinase. (Glu2)-TRH manifests neuroprotective, antidepressant, anticonvulsant in the CNS^[1].

In Vivo

(Glu2)-TRH (1-100 µmol/kg; IV) dose-dependently attenuated TRH-induced analeptic action^[1].
 (Glu2)-TRH (10 µmol/kg; IV) 10 min before Pentobarbital (60 mg/kg; i.p.) decreases the sleeping time by approximately 20% compared to the vehicle treated group^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Male Swiss-Webster mice (30 g)^[1]

Dosage:	1, 2, 5, 10, 15, 25, 50, 100 $\mu\text{mol/kg}$
Administration:	IV; 10 min before Pentobarbital (60 mg/kg, i.p.)
Result:	Dose-dependently attenuated TRH-induced (10 $\mu\text{mol/kg}$; iv) analeptic action.

REFERENCES

[1]. Vien Nguyen, et al. [Glu2]TRH dose-dependently attenuates TRH-evoked analeptic effect in mice. Brain Res Bull. 2010 Apr 29;82(1-2):83-6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA