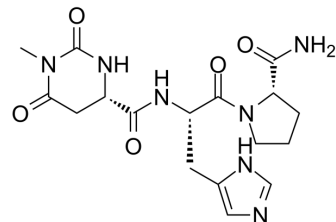


Taltirelin

Cat. No.:	HY-B0596		
CAS No.:	103300-74-9		
Molecular Formula:	C ₁₇ H ₂₃ N ₇ O ₅		
Molecular Weight:	405.41		
Target:	Thyroid Hormone Receptor		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (246.66 mM; Need ultrasonic)
 H₂O : 100 mg/mL (246.66 mM; Need ultrasonic)

	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.4666 mL	12.3332 mL	24.6664 mL
	5 mM		0.4933 mL	2.4666 mL	4.9333 mL
	10 mM		0.2467 mL	1.2333 mL	2.4666 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (246.66 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.17 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.17 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.17 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Taltirelin (TA0910) is a superagonist at thyrotropin-releasing hormone receptor (TRH-R) with an IC₅₀ of 910 nM and EC₅₀ of 36 nM for stimulating an increase in cytosolic Ca²⁺ concentration (Ca²⁺ release)^[1].

IC₅₀ & Target

IC₅₀: 910 nM (Thyrotropin-releasing hormone receptor)^[1]

REFERENCES

[1]. Thirunarayanan N, et al. Taltirelin is a superagonist at the human thyrotropin-releasing hormone receptor. *Front Endocrinol (Lausanne)*. 2012 Oct 9;3:120.

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

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