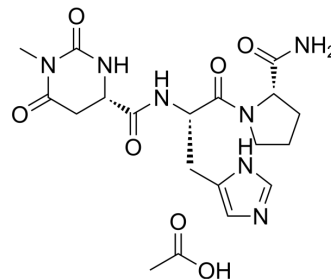


Taltirelin acetate

Cat. No.:	HY-B0596A
CAS No.:	1549593-23-8
Molecular Formula:	C ₁₉ H ₂₇ N ₇ O ₇
Molecular Weight:	465.46
Target:	Thyroid Hormone Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (268.55 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1484 mL	10.7421 mL	21.4841 mL	
		5 mM	0.4297 mL	2.1484 mL	4.2968 mL	
		10 mM	0.2148 mL	1.0742 mL	2.1484 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.47 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.47 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.47 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Taltirelin acetate (TA-0910 acetate) is a superagonist at thyrotropin-releasing hormone receptor (TRH-R) with an IC ₅₀ of 910 nM and EC ₅₀ of 36 nM for stimulating an increase in cytosolic Ca ²⁺ concentration (Ca ²⁺ release) ^[1] .
IC₅₀ & Target	IC ₅₀ : 910 nM (Thyrotropin-releasing hormone receptor) ^[1]

REFERENCES

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

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