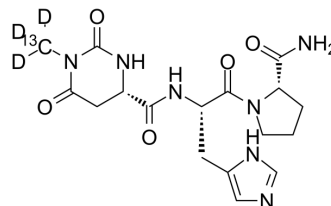


Taltirelin-¹³C,₃

Cat. No.:	HY-B0596S
Molecular Formula:	C ₁₆ ¹³ CH ₂₀ D ₃ N ₇ O ₅
Molecular Weight:	409.42
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Taltirelin- ¹³ C, ₃ (TA-0910- ¹³ C, ₃) is ¹³ C and deuterated labeled Taltirelin (HY-B0596). Taltirelin (TA0910) 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).
IC₅₀ & Target	IC ₅₀ : 910 nM (Thyrotropin-releasing hormone receptor) ^[2]
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

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

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