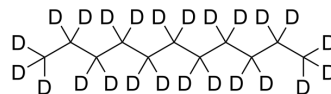


Undecane-d₂₄

Cat. No.:	HY-N8593S
CAS No.:	164858-54-2
Molecular Formula:	C ₁₁ D ₂₄
Molecular Weight:	180.46
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Undecane-d ₂₄ is the deuterium labeled Undecane[1]. Undecane has anti-allergic and anti-inflammatory activities on sensitized rat basophilic leukemia (RBL-2H3) mast cells and HaCaT keratinocytes. In sensitized mast cells, Undecane inhibits degranulation and the secretion of histamine and TNF-α[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Choi D, Kang W, Park T. Anti-Allergic and Anti-Inflammatory Effects of Undecane on Mast Cells and Keratinocytes. *Molecules*. 2020;25(7):1554. Published 2020 Mar 28.

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

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