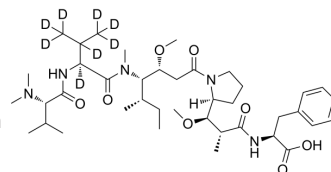


Auristatin F-d₈

Cat. No.:	HY-15583S
Molecular Formula:	C ₄₀ H ₅₉ D ₈ N ₅ O ₈
Molecular Weight:	754.04
Target:	Isotope-Labeled Compounds; ADC Cytotoxin; Microtubule/Tubulin
Pathway:	Others; Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Auristatin F-d ₈ is deuterium labeled Auristatin F (HY-15583). Auristatin F is a potent cytotoxin in antio-conjugated agents and an analogue of MMAF. Auristatin F is a potent microtubule inhibitor and vascular damaging agent (VDA). Auristatin F inhibits cell division by preventing tubulin aggregation. Auristatin F can be used in antibody-drug conjugates (ADC).
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]. Park MH, et, al. Pharmacokinetic and Metabolism Studies of Monomethyl Auristatin F via Liquid Chromatography-Quadrupole-Time-of-Flight Mass Spectrometry. *Molecules.* 2019 Jul 29;24(15):2754.
- [3]. Roy S, et al. SMI-Ribosome inactivating protein conjugates selectively inhibit tumor cell growth. *Chem Commun (Camb).* 2017 Apr 11;53(30):4234-4237.

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

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