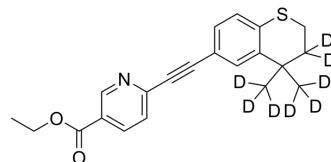


## Tazarotene-d<sub>8</sub>

<b>Cat. No.:</b>	HY-15388S
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>13</sub> D <sub>8</sub> NO <sub>2</sub> S
<b>Molecular Weight:</b>	359.51
<b>Target:</b>	RAR/RXR; Autophagy; Isotope-Labeled Compounds
<b>Pathway:</b>	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Autophagy; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Tazarotene-d <sub>8</sub> is the deuterium labeled Tazarotene. Tazarotene (AGN 190168) is a selective retinoic acid receptor (RAR) agonist for the treatment of plaque psoriasis and acne vulgaris[1][2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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;53(2):211-216.
- [2]. Talpur R, et al. Efficacy and safety of topical tazarotene: a review. *Expert Opin Drug Metab Toxicol.* 2009 Feb;5(2):195-210.
- [3]. Nagpal S, et al. Negative regulation of two hyperproliferative keratinocyte differentiation markers by a retinoic acidreceptor-specific retinoid: insight into the mechanism of retinoid action in psoriasis. *Cell Growth Differ.* 1996 Dec;7(12):1783-91.
- [4]. Tang-Liu DD, et al. Clinical pharmacokinetics and drug metabolism of tazarotene: a novel topical treatment for acne and psoriasis. *Clin Pharmacokinet.* 1999 Oct;37(4):273-87.

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

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