# cis-Vaccenic acid-$d_{13}$

**Cat. No.:** HY-113427AS

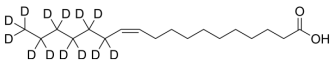
**Molecular Formula:** $C_{18}H_{21}D_{13}O_2$

**Molecular Weight:** 295.54

**Target:** Antibiotic

**Pathway:** Anti-infection

**Storage:** Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

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|---|---|
| **Description** | cis-Vaccenic acid-$d_{13}$ is the deuterium labeled cis-Vaccenic acid. cis-Vaccenic acid, the antiviral extract from Rhodopseudomonas capsulate and the predominant active component of Rhodopseudomonas capsulate[1], acts a potential fetal hemoglobin inducer[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].<br>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]. H Hirotani, et al. Inactivation of T5 phage by cis-vaccenic acid, an antivirus substance from Rhodopseudomonas capsulata, and by unsaturated fatty acids and related alcohols. FEMS Microbiol Lett. 1991 Jan 1;61(1):13-7.

[3]. Idowu A Aimola, et al. Cis-vaccenic acid induces differentiation and up-regulates gamma globin synthesis in K562, JK1 and transgenic mice erythroid progenitor stem cells. Eur J Pharmacol. 2016 Apr 5;776:9-18.



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