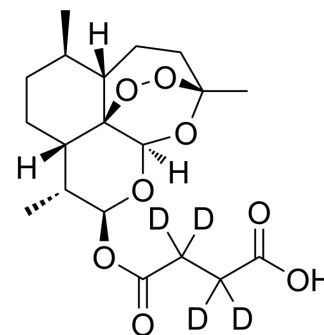


## Artesunate-d<sub>4</sub>

<b>Cat. No.:</b>	HY-N0193S1
<b>CAS No.:</b>	1316753-15-7
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>24</sub> D <sub>4</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	388.45
<b>Target:</b>	STAT; Parasite; Ferroptosis; Virus Protease; Isotope-Labeled Compounds
<b>Pathway:</b>	JAK/STAT Signaling; Stem Cell/Wnt; Anti-infection; Apoptosis; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Artesunate-d <sub>4</sub> is deuterium labeled Artesunate. Artesunate is an inhibitor of both STAT-3 and exported protein 1 (EXP1).
<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]. Ilamathi M, et al. Artesunate as an Anti-Cancer Agent Targets Stat-3 and Favorably Suppresses Hepatocellular Carcinoma. *Curr Top Med Chem.* 2016;16(22):2453-63.
- [3]. Lisewski AM, et al. Supergenomic network compression and the discovery of EXP1 as a glutathione transferase inhibited by artesunate. *Cell.* 2014 Aug 14;158(4):916-928.
- [4]. Wang B, et al. Artesunate sensitizes ovarian cancer cells to cisplatin by downregulating RAD51. *Cancer Biol Ther.* 2015;16(10):1548-56.

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

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