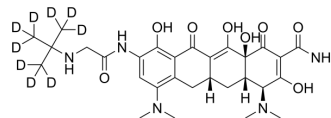


## Tigecycline-d<sub>9</sub>

<b>Cat. No.:</b>	HY-B0117S		
<b>CAS No.:</b>	2699607-86-6		
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>30</sub> D <sub>9</sub> N <sub>5</sub> O <sub>8</sub>		
<b>Molecular Weight:</b>	594.7		
<b>Target:</b>	Bacterial; Autophagy; Antibiotic		
<b>Pathway:</b>	Anti-infection; Autophagy		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	Tigecycline-d <sub>9</sub> is deuterium labeled Tigecycline. Tigecycline (GAR-936) is a broad-spectrum glycylicycline antibiotic. The mean inhibitory concentration (MIC) of Tigecycline for <i>E. coli</i> (MG1655 strain) is approximately 125 ng/mL[1]. MIC50 and MIC90 are 1 and 2 mg/L for <i>Acinetobacter baumannii</i> ( <i>A. baumannii</i> ), respectively[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]. Falagas ME, et al. Activity of TP-6076 against carbapenem-resistant *Acinetobacter baumannii* isolates collected from inpatients in Greek hospitals. *Int J Antimicrob Agents.* 2018 Aug;52(2):269-271.
- [3]. Jitkova Y, et al. A novel formulation of tigecycline has enhanced stability and sustained antibacterial and antileukemic activity. *PLoS One.* 2014 May 28;9(5):e95281.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA