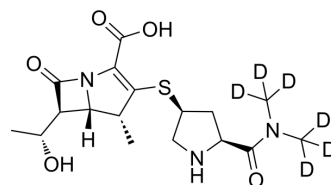


## Meropenem-d<sub>6</sub>-1

Cat. No.:	HY-13678S1
CAS No.:	1133424-00-6
Molecular Formula:	C <sub>17</sub> H <sub>19</sub> D <sub>6</sub> N <sub>3</sub> O <sub>5</sub> S
Molecular Weight:	389.5
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Meropenem-d<sub>6</sub>-1 (SM 7338-d<sub>6</sub>-1) is the deuterium labeled Meropenem. Meropenem (SM 7338) is a carbapenem antibiotic with broad-spectrum antibacterial activity. Meropenem has activity against susceptible and resistant *N. gonorrhoeae* (MIC value of 0.02-0.06 mg/mL), *H. influenzae* (MIC value of 0.03-0.12 mg/mL), and *H. ducreyi* (MIC value of 0.015-0.12 mg/mL)<sup>[1]</sup>.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. L Slaney, et al. In-vitro activity of meropenem against *Neisseria gonorrhoeae*, *Haemophilus influenzae* and *H. ducreyi* from Canada and Kenya. *J Antimicrob Chemother.* 1989 Sep;24 Suppl A:183-6.

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

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