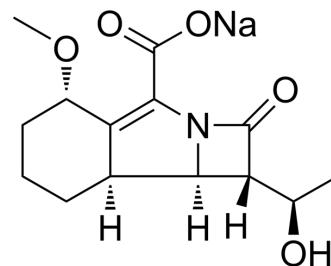


Sanfetrinem sodium

Cat. No.:	HY-106922A
CAS No.:	141611-76-9
Molecular Formula:	C ₁₄ H ₁₈ NNaO ₅
Molecular Weight:	303.29
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sanfetrinem (GV104326) sodium is a beta-lactamase-stable antibiotic. Sanfetrinem sodium has broad-spectrum activity against gram-positive and gram-negative bacteria ^[1] .								
IC₅₀ & Target	β-lactam								
In Vitro	<p>Sanfetrinem (4 μg/mL) sodium inhibits 99.5% of the strains, including <i>B. fragilis</i> group, <i>B. fragilis</i>, <i>B. thetaiotaomicron</i>, <i>B. uniformis</i>^[1].</p> <p>Sanfetrinem sodium shows potent activity against <i>Staphylococcus aureus</i> with a MIC₉₀ of 0.06 μg/mL^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td><i>B. fragilis</i> group, <i>B. fragilis</i>, <i>B. thetaiotaomicron</i>, <i>B. uniformis</i></td> </tr> <tr> <td>Concentration:</td> <td>0-1 μg/mL approximately</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Inhibited bacteria with MIC values of 0.1, 0.1, 0.2, 0.1 μg/mL, respectively.</td> </tr> </table>	Cell Line:	<i>B. fragilis</i> group, <i>B. fragilis</i> , <i>B. thetaiotaomicron</i> , <i>B. uniformis</i>	Concentration:	0-1 μg/mL approximately	Incubation Time:		Result:	Inhibited bacteria with MIC values of 0.1, 0.1, 0.2, 0.1 μg/mL, respectively.
Cell Line:	<i>B. fragilis</i> group, <i>B. fragilis</i> , <i>B. thetaiotaomicron</i> , <i>B. uniformis</i>								
Concentration:	0-1 μg/mL approximately								
Incubation Time:									
Result:	Inhibited bacteria with MIC values of 0.1, 0.1, 0.2, 0.1 μg/mL, respectively.								

REFERENCES

[1]. Betriu C, et al. Activities of new antimicrobial agents (trovafloxacin, moxifloxacin, sanfetrinem, and quinupristin-dalfopristin) against *Bacteroides fragilis* group: comparison with the activities of 14 other agents. *Antimicrob Agents Chemother.* 1999 Sep;43(9):2320-2.

[2]. Tamura S, et al. In vivo antibacterial activities of sanfetrinem cilexetil, a new oral tricyclic antibiotic. *Antimicrob Agents Chemother.* 1998 Jul;42(7):1858-61.

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