

## Carumonam disodium

**Cat. No.:** HY-107328

**CAS No.:** 86832-68-0

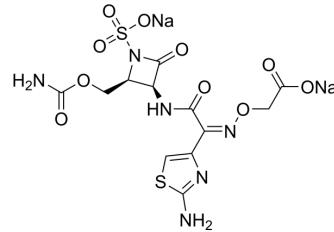
**Molecular Formula:** C<sub>12</sub>H<sub>12</sub>N<sub>6</sub>Na<sub>2</sub>O<sub>10</sub>S<sub>2</sub>

**Molecular Weight:** 510.37

**Target:** Antibiotic; Bacterial

**Pathway:** Anti-infection

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



### BIOLOGICAL ACTIVITY

Description	Carumonam disodium is a potent antibiotic. Carumonam disodium shows antibacterial activity. Carumonam disodium induces seizure <sup>[1][2]</sup> .								
In Vitro	Carumonam disodium (0-100 µg/mL) shows antibacterial activity with MIC <sub>90</sub> s of 0.2, 3.13, 0.2, 0.39, 0.2, 6.25, 0.2, 3.13, 0.05, 0.025, 0.78, 0.013, 0.025 µg/mL for Escherichia coli (cefazolin sensitive), Escherichia coli (cefazolin resistant), Klebsiella pneumoniae (cefazolin sensitive), Klebsiella pneumoniae (cefazolin resistant), Klebsiella oxytoca, Enterobacter cloacae, Serratia marcescens (gentamicin sensitive), Serratia marcescens (gentamicin resistant), Proteus vulgaris, Proteus mirabilis, Proteus morganii, Proteus rettgeri, Proteus inconstans, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	Carumonam disodium (1.31-6.89 mmol/kg; i.p.) induces seizure in DBA/2, Swiss and C57 mice <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Animal Model:</td> <td>16-24g, 42-48 days DBA/2; 18-28, 42-48 days Swiss and C57 mice<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>1.31-6.89 mmol/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p.</td> </tr> <tr> <td>Result:</td> <td>Induced seizure in DBA/2, Swiss and C57 mice.</td> </tr> </table>	Animal Model:	16-24g, 42-48 days DBA/2; 18-28, 42-48 days Swiss and C57 mice <sup>[2]</sup>	Dosage:	1.31-6.89 mmol/kg	Administration:	i.p.	Result:	Induced seizure in DBA/2, Swiss and C57 mice.
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### REFERENCES

[1]. Imada A, et al. In vitro and in vivo antibacterial activities of carumonam (AMA-1080), a new N-sulfonated monocyclic beta-lactam antibiotic. Antimicrob Agents Chemother. 1985 May;27(5):821-7.

[2]. De Sarro A, et al. Comparative epileptogenic properties of two monobactam derivatives in C57, Swiss and DBA/2 mice. J Antimicrob Chemother. 1996 Sep;38(3):475-84.

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

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