



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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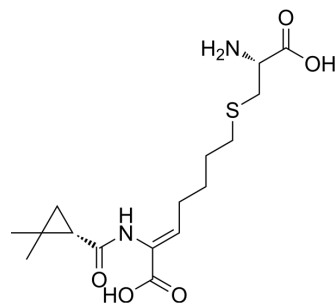
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Cilastatin (Standard)

Cat. No.:	HY-A0166R
CAS No.:	82009-34-5
Molecular Formula:	C ₁₆ H ₂₆ N ₂ O ₅ S
Molecular Weight:	358.45
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cilastatin (Standard) is the analytical standard of Cilastatin. This product is intended for research and analytical applications. Cilastatin (MK0791) is a reversible, competitive renal dehydropeptidase I inhibitor with an IC ₅₀ of 0.1 μM. Cilastatin inhibits the bacterial metallo-lactamase enzyme CphA with an IC ₅₀ of 178 μM. Cilastatin is an antibacterial adjunct ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 0.1 μM (Renal dehydropeptidase I); 178 μM (Bacterial metallo-lactamase enzyme CphA) ^[1]

REFERENCES

- [1]. The renal membrane dipeptidase (dehydropeptidase I) inhibitor, cilastatin, inhibits the bacterial metallo-beta-lactamase enzyme CphA. *Antimicrob Agents Chemother.* 1995 Jul;39(7):1629-31.
- [2]. Blanca Humanes, et al. Protective Effects of Cilastatin Against Vancomycin-Induced Nephrotoxicity. *Biomed Res Int.* 2015;2015:704382.
- [3]. P J Petersen, et al. In Vitro and in Vivo Activities of LJC10,627, a New Carbapenem With Stability to Dehydropeptidase I. *Antimicrob Agents Chemother.* 1991 Jan;35(1):203-7.

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

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