



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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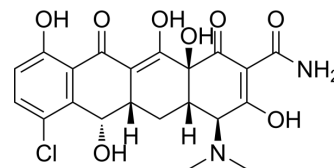
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## Demeclocycline (Standard)

Cat. No.:	HY-121268R
CAS No.:	127-33-3
Molecular Formula:	C <sub>21</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>8</sub>
Molecular Weight:	464.85
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Demeclocycline (Standard) is the analytical standard of Demeclocycline. This product is intended for research and analytical applications. Demeclocycline is an orally active tetracycline antibiotic. Demeclocycline impairs protein synthesis by binding to the 30S ribosomal subunit to inhibit binding of aminoacyl tRNA. Demeclocycline shows anti-bacterial activity to a wide variety of bacterial infections<sup>[1][2]</sup>.

### REFERENCES

- [1]. I Chopra, et al. Tetracyclines, molecular and clinical aspects. J Antimicrob Chemother. 1992 Mar;29(3):245-77.
- [2]. D Schnappinger, et al. Tetracyclines: antibiotic action, uptake, and resistance mechanisms. Arch Microbiol. 1996 Jun;165(6):359-69.
- [3]. Marleen LA Kortenoeven, et al. Demeclocycline attenuates hyponatremia by reducing aquaporin-2 expression in the renal inner medulla. Am J Physiol Renal Physiol. 2013 Dec 15;305(12):F1705-18.
- [4]. Susobhan Sarkar, et al. Demeclocycline Reduces the Growth of Human Brain Tumor-Initiating Cells: Direct Activity and Through Monocytes. Front Immunol. 2020 Feb 21;11:272.

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

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