



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

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

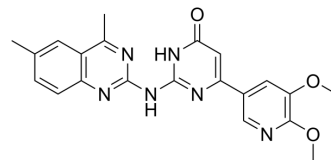
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

IDD-8E

Cat. No.:	HY-161395
Molecular Formula:	C ₂₁ H ₂₀ N ₆ O ₃
Molecular Weight:	404.42
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	IDD-8E is an effective anti-pseudomonal agent (MIC =4.4 μM) with no cytotoxicity. IDD-8E shows significant pseudomonal killing and disruption of pseudomonal biofilm. IDD-8E binds to the ATP-binding pocket of WaaP and also inhibits other ESKAPE pathogens. ^[1]								
In Vitro	<p>IDD-8E (10-100 μM; 24 h) remains unchanged at higher concentrations compared to untreated controls using RAW cells, showing no cytotoxicity^[1].</p> <p>IDD-8E (2, 4.4 μM; 0-5 h) is observed to significantly reduce the number of Pseudomonas aeruginosa and is as effective as Rifampicin (HY-B0272). It is also found to have the ability to disrupt biofilm^[1].</p> <p>IDD-8E is synergistic with each of the three antibiotics (Rifampicin (HY-B0272), Lincomycin (HY-117660), Carbenicillin (HY-B0525)) in several combinations. Synergistic combinations effectively reduces the minimum inhibitory concentrations (MICs) of the antibiotics^[1].</p> <p>IDD-8E can inhibit the growth of other ESKAPE pathogens, with MIC values of 6.25 μM, 50 μM, 12.5 μM, 12.5 μM and 50 μM against A. baumannii, K. pneumoniae, Methicillin-resistant Staphylococcus aureus (MRSA), Vancomycin-resistant Enterococcus faecalis (VRE) and E. coli, respectively ^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>RAW cells</td> </tr> <tr> <td>Concentration:</td> <td>100 μM, 70 μM, 40 μM, and 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>IDD-8E showed no significant cytotoxic effects at the concentrations tested, similar to the negative control, Rifampicin. This indicates that IDD-8E is potentially safe for further development as it does not harm the macrophage cells at effective antibacterial concentrations.</td> </tr> </table>	Cell Line:	RAW cells	Concentration:	100 μM, 70 μM, 40 μM, and 10 μM	Incubation Time:	24 h	Result:	IDD-8E showed no significant cytotoxic effects at the concentrations tested, similar to the negative control, Rifampicin. This indicates that IDD-8E is potentially safe for further development as it does not harm the macrophage cells at effective antibacterial concentrations.
Cell Line:	RAW cells								
Concentration:	100 μM, 70 μM, 40 μM, and 10 μM								
Incubation Time:	24 h								
Result:	IDD-8E showed no significant cytotoxic effects at the concentrations tested, similar to the negative control, Rifampicin. This indicates that IDD-8E is potentially safe for further development as it does not harm the macrophage cells at effective antibacterial concentrations.								

REFERENCES

[1]. Rakshit M et al. Uncovering the potentiality of quinazoline derivatives against Pseudomonas aeruginosa with antimicrobial synergy and SAR analysis. J Antibiot. 2024 MAR

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