



SZABO SCANDIC

Part of Europa Biosite

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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

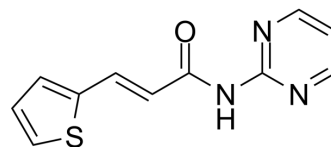
mail@szabo-scandic.com

www.szabo-scandic.com

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

NP-BTA

Cat. No.:	HY-163540
CAS No.:	544420-99-7
Molecular Formula:	C ₁₁ H ₉ N ₃ OS
Molecular Weight:	231.27
Target:	Aminoacyl-tRNA Synthetase; Fungal
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NP-BTA is an allosteric inhibitor for glutaminyl-tRNA synthetase (GlnRS). NP-BTA exhibits antifungal efficacy against <i>Candida albicans</i> , with MIC ₅₀ of 6.25 μM ^[1] .
In Vitro	NP-BTA (300 μM) inhibits GlnRS through binding His ₆ -Gln4, with K _D of 180 nM, and thus inhibits aminoacylation of tRNA ^{Gln} with IC ₅₀ of 106 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	NP-BTA (0.096–0.27 g 2% NP-BTA cream, application, twice daily for 7 days) protects immunosuppressed CD-1 mice from infection of <i>T. mentagrophytes conidia</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	T. mentagrophytes infected immunosuppressed CD-1 mice ^[1]
Dosage:	0.096–0.27 g 2% NP-BTA cream
Administration:	Topical application, twice daily for 7 days
Result:	Reduced fungal burden.

REFERENCES

[1]. Puumala E, et al., Allosteric inhibition of tRNA synthetase Gln4 by N-pyrimidinyl-β-thiophenylacrylamides exerts highly selective antifungal activity. *Cell Chem Biol.* 2024 Apr 18;31(4):760-775.e17.

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