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Produktinformation



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Lieferung & Zahlungsart

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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

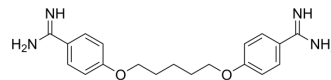
mail@szabo-scandic.com

www.szabo-scandic.com

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

Pentamidine (Standard)

Cat. No.:	HY-B0537R
CAS No.:	100-33-4
Molecular Formula:	C ₁₉ H ₂₄ N ₄ O ₂
Molecular Weight:	340.42
Target:	Parasite; Antibiotic; Fungal; Phosphatase; Bacterial
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pentamidine (Standard) is the analytical standard of Pentamidine. This product is intended for research and analytical applications. Pentamidine (MP-601205) is an antimicrobial agent and interferes with DNA biosynthetics. Pentamidine inhibits parasite <i>Leishmania infantum</i> with an IC ₅₀ of 2.5 μM. Pentamidine is a potent and selective protein tyrosine phosphatases (PTPases) and phosphatase of regenerating liver (PRL) inhibitor. Pentamidine has the potential for Gambian trypanosomiasis, antimony-resistant leishmaniasis, and Pneumocystis carinii pneumonia treatment. Antitumor and antibacterial activities ^{[1][2][3][4]} .
IC₅₀ & Target	IC ₅₀ : 2.5 μM (<i>Leishmania infantum</i>) ^[2] Protein tyrosine phosphatases (PTPases) ^[1] Phosphatase of regenerating liver (PRL) ^[1]

REFERENCES

- [1]. Pathak MK, et al. Pentamidine is an inhibitor of PRL phosphatases with anticancer activity. *Mol Cancer Ther.* 2002 Dec;1(14):1255-64.
- [2]. Nguewa, P.A., et al., Pentamidine is an antiparasitic and apoptotic drug that selectively modifies ubiquitin. *Chem Biodivers*, 2005. 2(10): p. 1387-400.
- [3]. Sands M, et al. Pentamidine: a review. *Rev Infect Dis.* 1985 Sep-Oct;7(5):625-34.
- [4]. David C. Bean, et al. Pentamidine: a drug to consider re-purposing in the targeted treatment of multi-drug resistant bacterial infections? *J Lab Precis Med* 2017;2:49.

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