



# 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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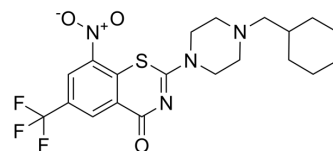
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## Macozinone

|                    |                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-12903                                                                                         |
| CAS No.:           | 1377239-83-2                                                                                     |
| Molecular Formula: | C <sub>20</sub> H <sub>23</sub> F <sub>3</sub> N <sub>4</sub> O <sub>3</sub> S                   |
| Molecular Weight:  | 456.48                                                                                           |
| Target:            | Bacterial; Antibiotic                                                                            |
| Pathway:           | Anti-infection                                                                                   |
| Storage:           | Powder    -20°C    3 years<br>4°C    2 years<br>In solvent   -80°C    2 years<br>-20°C    1 year |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 6.4 mg/mL (14.02 mM; Need ultrasonic)

|                              | Solvent<br>Concentration | Mass | 1 mg      | 5 mg       | 10 mg      |
|------------------------------|--------------------------|------|-----------|------------|------------|
|                              |                          |      |           |            |            |
| Preparing<br>Stock Solutions | 1 mM                     |      | 2.1907 mL | 10.9534 mL | 21.9068 mL |
|                              | 5 mM                     |      | 0.4381 mL | 2.1907 mL  | 4.3814 mL  |
|                              | 10 mM                    |      | 0.2191 mL | 1.0953 mL  | 2.1907 mL  |

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Macozinone (PBTZ169) is a bactericidal benzothiazine and a potent DprE1 (decaprenylphosphoryl-β-d-ribose 2'-oxidase) inhibitor. Macozinone inhibits the essential flavoprotein DprE1 by forming a covalent bond with the active-site Cys387 residue. Macozinone has antituberculosis effect<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

DprE1<sup>[1]</sup>

#### In Vitro

Macozinone (PBTZ169) is highly potent against *M. tuberculosis* in vitro, ex vivo, and in vivo<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Antimicrob Agents Chemother. 2021 Jan 25;AAC.01445-20.

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- Dis Model Mech. 2021 Oct 13;dmm.049145.
  - J Pharm Biomed Anal. 2 June 2022, 114865.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. [3] Makarov V et al. Towards a new combination therapy for tuberculosis with next generation benzothiazinones. EMBO Mol Med. 2014 Mar;6(3):372-83.

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

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