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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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LolCDE-IN-1

Cat. No.: HY-130839

CAS No.: 1639933-78-0

Molecular Formula: $C_{21}H_{16}FN_3O$

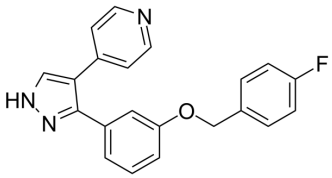
Molecular Weight: 345.37

Target: Bacterial

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (120.65 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.8954 mL	14.4772 mL	28.9545 mL
5 mM	0.5791 mL	2.8954 mL	5.7909 mL
10 mM	0.2895 mL	1.4477 mL	2.8954 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (6.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LolCDE-IN-1 is an inhibitor of the Lol proteins (LolCDE) complex, with antibacterial activity[1].

IC_{50} & Target

Bacterial

In Vitro

LolCDE-IN-1 (compound 2) inhibits the function of the LolCDE complex, which is required for transport of lipoproteins to the outer membrane[1].

LolCDE-IN-1 inhibits E. coli ATCC 25922 and E. coli ATCC 25922 ΔtolCwith MIC with 8 μg/ml and 0.125 μg/ml[1].

LolCDE-IN-1 inhibits bacterial growth by targeting LolCDE to block lipoprotein transport to the outer membrane[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nayar AS, et al. Novel antibacterial targets and compounds revealed by a high-throughput cell wall reporter assay. J Bacteriol. 2015 May;197(10):1726-34.

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