Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

BM635

Catalog No: tcsc0032638

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Specifications

CAS No:
1493762-74-5

Formula:
$C_{25}H_{29}FN_2O$

Pathway:
Anti-infection

Target:
Bacterial

Purity / Grade:
>98%

Solubility:
DMSO : 31 mg/mL (78.98 mM; Need ultrasonic and warming)

Observed Molecular Weight:
392.51

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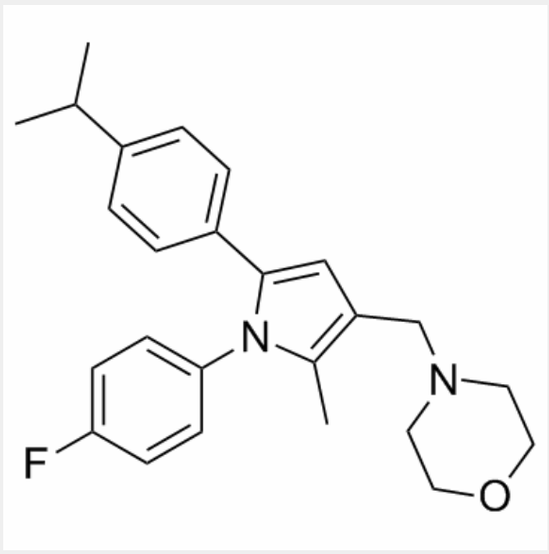
Product Description

BM635 is a **MmpL3** inhibitor with outstanding anti-mycobacterial activity. BM635 has an **MIC_{50}** of 0.12 μM against *M. tuberculosis* H37Rv.

IC50 & Target: MIC50: 0.12 μM (M. tuberculosis H37Rv)[1]

In Vivo: BM635 has potent MIC (0.12 μM), Tox_{50}:MIC ratio of >100, and good microsomal stability in mice (1.4 mL/min/g). When tested in an acute murine infection model at multiple doses, BM635 exhibits potent anti-tubercular activity, with an ED_{99} of 49 mg/Kg ($IC_{95\%}$: 43–54 mg/Kg)[1]. The half-life *in vivo* of BM635 is 1h, allowing a reasonable maximum concentration (C_{max}=1.62 μM) and a moderate bioavailability (46%). Its poor aqueous solubility together with its high lipophilicity leads to low exposure *in vivo*[2].



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