

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:

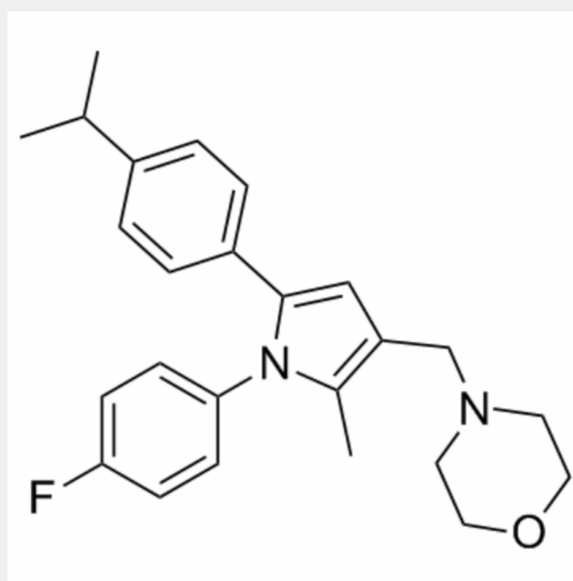
392.51

Product Description

BM635 is a **MmpL3** inhibitor with outstanding anti-mycobacterial activity. BM635 has an **MIC₅₀** of 0.12 μ M against *M. tuberculosis* H37Rv.

IC50 & Target: MIC50: 0.12 μ M (*M. tuberculosis* H37Rv)^[1]

In Vivo: BM635 has potent MIC (0.12 μ M), Tox₅₀: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 ED₉₉ 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 μ M) and a moderate bioavailability (46%). Its poor aqueous solubility together with its high lipophilicity leads to low exposure *in vivo*^[2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!