

TBA-354

Catalog No: tcsc3576



Available Sizes

Size: 5mg

Size: 10mg



Specifications

CAS No:

1257426-19-9

Formula:

$C_{19}H_{15}F_3N_4O_5$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 46 mg/mL (105.42 mM)

Observed Molecular Weight:

436.34

Product Description

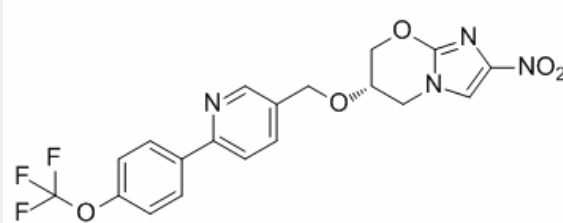
TBA-354 is a potent anti-tuberculosis compound; maintains activity against Mycobacterium tuberculosis H37Rv isogenic monoresistant strains and clinical drug-sensitive and drug-resistant isolates.

IC50 value:

Target: Anti-tuberculosis agent

in vitro: TBA-354 is narrow spectrum and bactericidal in vitro against replicating and nonreplicating *Mycobacterium tuberculosis*, with potency similar to that of delamanid and greater than that of PA-824. TBA-354 maintains activity against *Mycobacterium tuberculosis* H37Rv isogenic monoresistant strains and clinical drug-sensitive and drug-resistant isolates [1]. TBA-354 is 5 to 10 times more potent than PA-824, but selected mutants are cross-resistant to PA-824 and delamanid. TBA-354 is 2 to 4 times more potent than PA-824 when combined with bedaquiline, and when administered at a dose equivalent to that of PA-824, TBA-354 demonstrated superior sterilizing efficacy [2].

in vivo: TBA-354 has high bioavailability and a long elimination half-life. In vitro studies suggest a low risk of drug-drug interactions. Low-dose aerosol infection models of acute and chronic murine tuberculosis reveal time- and dose-dependent in vivo bactericidal activity that is at least as potent as that of delamanid and more potent than that of PA-824.



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