

GNF179 (Metabolite)

Catalog No: tcsc2795



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1310455-86-7

Formula:

$C_{14}H_{16}FN_3$

Pathway:

Anti-infection

Target:

Parasite

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

245.3

Product Description

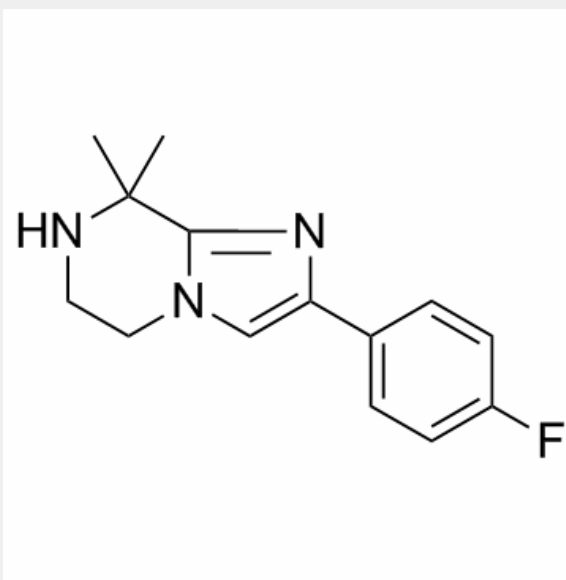
GNF179 metabolite is the metabolite of GNF179, which is an optimized 8,8-dimethyl IP analog that exhibited the potency(4.8 nM

against the multidrug resistant strain W2) in vitro metabolic stability and in vivo oral bioavailability.

IC50 value:

Target: Anti-parasitic agent

GNF179 exhibits a low clearance (CL=22 ml/min/kg, ~25% of hepatic blood flow in mice), a large volume of distribution (steady-state volume of distribution, Vss=11.8 l/kg), a moderate residence time (MRT=9 hours) and suitable terminal half-life (t_{1/2}=8.9 hours). GNF179 reduced *Plasmodium berghei* parasitemia levels by 99.7% with a single 100 mg/kg oral dose, and prolonged mouse survival by an average of 19 days. GNF179 was able to protect against an infectious *P. berghei* sporozoite challenge with a single oral dose at 15 mg/kg while NITD609 was not.



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