
Product Data Sheet

Product Name: GNF179 Metabolite

Cat. No.: GC36173

Chemical Properties

Cas. No. 1310455-86-7

SMILES CC1(C2=NC(C3=CC=C(F)C=C3)=CN2CCN1)C

Formula $C_{14}H_{16}FN_3$ M.Wt 245.3

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

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, V_{ss} =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.

[1]. Meister S, et al. Imaging of Plasmodium liver stages to drive next-generation antimalarial drug discovery. Science. 2011 Dec 9;334(6061):1372-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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