
Product Data Sheet

Product Name: Tuberculosis inhibitor 1
Cat. No.: GC37834

Chemical Properties

Cas. No. 2230810-28-1

SMILES O=C(CC1=C(C)NC2=C1C=C(OC)C=C2)N(CCN(CC3CCOC3)C4)C4C5=NC=C(N5)C6=CC(C=CC=C7)=C7C=C6

Formula C₃₄H₃₇N₅O₃

M.Wt

563.69

Solubility Soluble in DMSO

Storage

Store at -20°C

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

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

Structure

Background

Tuberculosis inhibitor 1 is a potent and non-cytotoxic trypanosoma brucei growth inhibitor with an EC₅₀ of 5 nM[1]. EC₅₀: 5 nM (Trypanosoma brucei)[1]

Tuberculosis inhibitor 1 is selective over other parasites, such as Trypanosoma cruzi and Plasmodium falciparum (T. cruzi EC₅₀ 8120 nM, P. falciparum EC₅₀ 3624 nM)[1].

[1]. Ferrigno F, et al. Discovery of 2-(1H-imidazo-2-yl)piperazines as a new class of potent and non-cytotoxic inhibitors of Trypanosoma brucei growth in vitro. Bioorg Med Chem Lett. 2018 Dec 15;28(23-24):3689-3692.

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

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