Golgicide A

Cat. No.: HY-100540

CAS No.: 1139889-93-2

Molecular Formula: $C_{17}H_{14}F_2N_2$

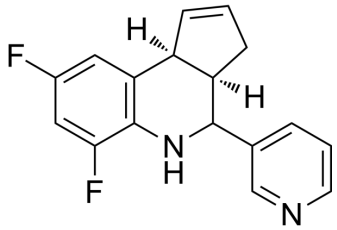
Molecular Weight: 284.3

Target: Enterovirus

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (351.74 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.5174 mL	17.5871 mL	35.1741 mL
5 mM	0.7035 mL	3.5174 mL	7.0348 mL
10 mM	0.3517 mL	1.7587 mL	3.5174 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.79 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.79 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Golgicide A (GCA) is a potent, highly specific, and reversible inhibitor of the cis-Golgi ADP-ribosylation factor guanine nucleotide exchange factors (ArfGEF) GBF1[1]. Golgicide A drastically reduced replication of coxsackievirus B3 (CVB3) and other human enterovirus species[2].

IC_{50} & Target

GBF1[1]

In Vitro

Golgicide A (GCA) is a potent and highly effective inhibitor of shiga toxin activity. Golgicide A (GCA) inhibits the effect of shiga toxin on protein synthesis with an IC_{50} of 3.3 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Mol Metab. 2021 Dec;54:101329.
- bioRxiv. 2024 Jan 2.

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REFERENCES

[1]. Sáenz JB, et al. Golgicide A reveals essential roles for GBF1 in Golgi assembly and function. Nat Chem Biol. 2009 Mar;5(3):157-65.

[2]. van der Linden L, et al. Differential effects of the putative GBF1 inhibitors Golgicide A and AG1478 on enterovirus replication. J Virol. 2010 Aug;84(15):7535-42.

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