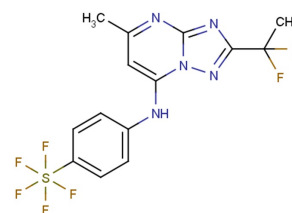


DSM265

Chemical Properties

CAS No.:	1282041-94-4
Formula:	C ₁₄ H ₁₂ F ₇ N ₅ S
Molecular Weight:	415.33
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	DSM265 is a long-duration <i>P. falciparum</i> dihydroorotate dehydrogenase inhibitor (IC ₅₀ : 8.9 nM). DSM265 can also inhibit the growth of Pf3D7 parasites (EC ₅₀ : 4.3 nM).
Targets(IC ₅₀)	PfDHODH: 8.9 nM <i>P. falciparum</i> 3D7 parasites: (EC ₅₀) 4.3 nM
In vivo	DSM265 (0.5 to 75 mg/kg; p.o.; twice daily; for 4 days; NOD-scid IL-2Rnull (NSG) mice) has effective in vivo antimalarial activity with 90% effective dose (ED ₉₀) of 3 mg/kg per day (1.5 mg/kg twice daily). DSM265 has moderate terminal elimination half-life (t _{1/2}) of 2-4 hours for mice (0.5 to 75 mg/kg, p.o.). The maximum rate of parasite killing occurred at and above a dose of 13 mg/kg per day (6.4 mg/kg; twice daily) [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (120.39 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.408 mL	12.039 mL	24.077 mL
5 mM	0.482 mL	2.408 mL	4.815 mL
10 mM	0.241 mL	1.204 mL	2.408 mL
50 mM	0.048 mL	0.241 mL	0.482 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Kokkonda S, et al. Tetrahydro-2-naphthyl and 2-Indanyl Triazolopyrimidines Targeting Plasmodium falciparum Dihydroorotate Dehydrogenase Display Potent and Selective Antimalarial Activity. *J Med Chem.* 2016 Jun 9;59(11):5416-31.
- Phillips MA, et al. A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. *Sci Transl Med.* 2015 Jul 15;7(296):296ra111.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481