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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

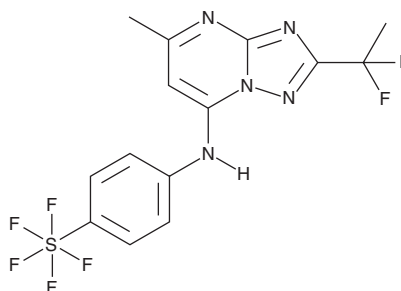


DSM 265

Item No. 30680

CAS Registry No.: 1282041-94-4
Formal Name: (OC-6-21)-[4-[[2-(1,1-difluoroethyl)-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]amino]phenyl]pentafluoro-sulfur

MF: C₁₄H₁₂F₇N₅S
FW: 415.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

DSM 265 is supplied as a solid. A stock solution may be made by dissolving the DSM 265 in the solvent of choice, which should be purged with an inert gas. DSM 265 is soluble in DMSO.

Description

DSM 265 is an antimalarial agent and inhibitor of *P. falciparum* and *P. vivax* dihydroorotate dehydrogenase (DHODH; IC₅₀s = 8.9 and 27 nM, respectively).¹ It is selective for *P. falciparum* and *P. vivax* DHODH over human, rabbit, pig, and monkey DHODH (IC₅₀s = >41 µg/ml) but does inhibit *P. cynomolgi*, dog, mouse, and rat DHODH (IC₅₀s = 0.005, 11, 1.1, and 0.82 µg/ml, respectively).² DSM 265 inhibits the growth of the *P. falciparum* strain 3D7 with an EC₅₀ value of 4.3 nM.¹ It also reduces blood parasitemia in mice (ED₉₀ = 1.5 mg/kg twice per day).²

References

1. Kokkonda, S., Deng, X., White, K.L., et al. Tetrahydro-2-naphthyl and 2-indanyl triazolopyrimidines targeting *Plasmodium falciparum* dihydroorotate dehydrogenase display potent and selective antimalarial activity. *J. Med. Chem.* **59(11)**, 5416-5431 (2016).
2. Phillips, M.A., Lotharius, J., Marsh, K., et al. A long-duration dihydroorotate dehydrogenase inhibitor (DSM265) for prevention and treatment of malaria. *Sci. Transl. Med.* **7(296)**, 296ra111 (2015).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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