

Product Data Sheet

Product Name: LysRs-IN-2

Cat. No.: GC65058

Chemical Properties

Cas. No. 2170696-76-9

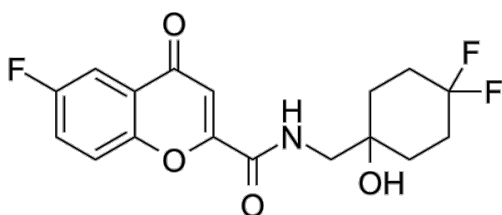
Formula $C_{17}H_{16}F_3NO_4$ M.Wt 355.31

Solubility DMSO : ≥ 60 mg/mL (168.87 mM) Storage 4°C, stored under nitrogen

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

LysRs-IN-2 is a lysyl-tRNA synthetase (KRS) inhibitor with IC₅₀s of 0.015 μ M and 0.13 μ M for Plasmodium falciparum lysyl-tRNA synthetase (PfKRS) and Cryptosporidium parvum lysyl-tRNA synthetase (CpKRS), respectively[1].

LysRs-IN-2 is active against whole-cell bloodstream P. falciparum 3D7 (EC₅₀=0.27 μ M), HsKRS (IC₅₀=1.8 μ M), HepG2 cells (EC₅₀=49 μ M), and Cryptosporidium parvum (EC₅₀=2.5 μ M)[1].

LysRs-IN-2 (1.5 mg/kg; orally once a day for 4 days) reduces parasitemia by 90% in the murine P. falciparum SCID model. LysRs-IN-2 (20 mg/kg; orally once a day for 7 days) reduces parasite

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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shedding in NOD SCID gamma mice and INF- γ -knockout mice (Cryptosporidium mouse models)[1].

[1]. Baragaña B, et al. Lysyl-tRNA synthetase as a drug target in malaria and cryptosporidiosis. Proc Natl Acad Sci U S A. 2019 Apr 2;116(14):7015-7020.

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