

Product Data Sheet

Product Name: DHODH-IN-31

Cat. No.: GC79566

Chemical Properties

Cas. No.

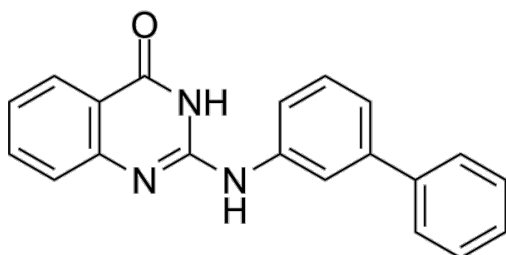
Formula $C_{20}H_{15}N_3O$ M.Wt 313.35

Solubility DMSO: 125 mg/mL (398.91 mM; Need ultrasonic) Storage Store at -20°C

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

DHODH-IN-31 is a human dihydroorotate dehydrogenase (DHODH) inhibitor with an IC_{50} of 0.59 μ M. DHODH-IN-31 exhibits antiviral activity. DHODH-IN-31 can be used for the research of infection, such as SARS-CoV-2 [1].

In Vitro, DHODH-IN-31 (Compound 10e) exhibits antiviral activity against SARS-CoV-2 with an EC_{50} of 0.15 μ M [1]. DHODH-IN-31 shows CC_{50} values of 26 and 180 μ M in Vero and SH-SY5Y cells [1].

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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DHODH-IN-31 (0.01-10 μ M) inhibits SARS-CoV-2 viral replication in Calu-3 cells^[1].

References:

[1]. Bruna F. Godoi, et al. Quinazolinones as Bioisosteres of Naphthoquinones: A Path to Potent HsDHODH Inhibitors with Optimized Properties. ACS Medicinal Chemistry Letters Article ASAP

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