

Product Data Sheet

Product Name: MK-0608

Cat. No.: GC61071

Chemical Properties

Cas. No. 443642-29-3

SMILES O[C@@]1(C)[C@H](N2C=CC3=C(N)N=CN=C32)O[C@H](CO)[C@H]1O

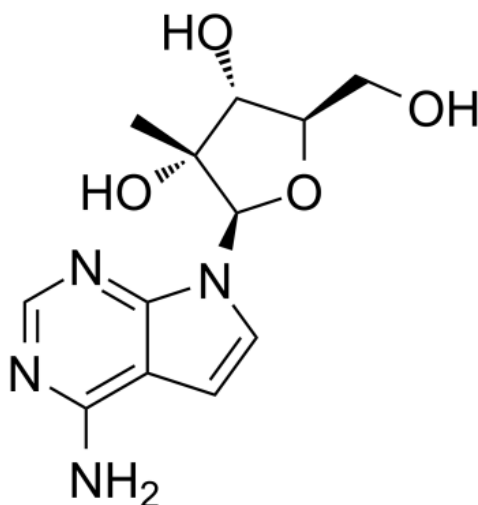
Formula $C_{12}H_{16}N_4O_4$ M.Wt 280.28

Solubility DMSO: 125 mg/mL (445.98 mM) 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

MK-0608 is a potent and orally bioavailable inhibitor of HCV replication in vitro with an EC₅₀ of 0.3 μM (EC₉₀=1.3 μM) in the subgenomic-replicon assay[1].

Oral dosing of MK-0608 results in a potent antiviral effect. In preclinical pharmacokinetic experiments with rats, dogs, and rhesus monkeys, MK-0608 demonstrates good to excellent oral bioavailability (50 to 100%) and long plasma half-lives in dogs and rhesus macaques (9 and 14 h, respectively)[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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Animal Model: The HCV-infected chimpanzees[1]

[1]. Carroll SS, et al. Robust antiviral efficacy upon administration of a nucleoside analog to hepatitis C virus-infected chimpanzees. Antimicrob Agents Chemother. 2009 Mar;53(3):926-34.

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