
Product Data Sheet

Product Name: ABT-072 potassium trihydrate

Cat. No.: GC63300

Chemical Properties

Cas. No. 1132940-31-8

Formula $C_{24}H_{32}KN_3O_8S$

M.Wt 561.69

Solubility DMSO : 50 mg/mL (89.02 mM; Need ultrasonic)

Storage 4°C, away from moisture and light

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

ABT-072 (potassium trihydrate) is an orally active and potent non-nucleoside HCV NS5B polymerase inhibitor (HCV GT1a EC₅₀=1 nM; HCV GT1b EC₅₀=0.3 nM)[1][2][3].

ABT-072 (potassium trihydrate) is a non-nucleoside NS5B polymerase inhibitor with nanomolar potency in vitro against genotype 1a and 1b hepatitis C virus polymerases[1].

ABT-072 (5 and/or 30 mg/kg; i.v. or p.o.) (potassium trihydrate) shows good PK properties[3]. ABT-072 (2.5 and/or 30 mg/kg; i.v. or p.o.) (potassium trihydrate) shows low plasma clearance and high oral bioavailability[3].

[1]. Lawitz E, et al. A phase 2a trial of 12-week interferon-free therapy with two direct-acting antivirals (ABT-450/r, ABT-072) and ribavirin in IL28B C/C patients with chronic hepatitis C genotype 1. *J Hepatol.* 2013;59(1):18-23.

[2]. Shi Y, et al. Assessing Supersaturation and Its Impact on In Vivo Bioavailability of a Low-Solubility Compound ABT-072 With a Dual pH, Two-Phase Dissolution Method. *J Pharm Sci.* 2016;105(9):2886-2895.

[3]. Randolph JT, et al. Synthesis and Biological Characterization of Aryl Uracil Inhibitors

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

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of Hepatitis C Virus NS5B Polymerase: Discovery of ABT-072, a trans-Stilbene Analog with Good Oral Bioavailability. J Med Chem. 2018;61(3):1153-1163.

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