
Product Data Sheet

Product Name: Emivirine

Cat. No.: GC64484

Chemical Properties

Cas. No. 149950-60-7

Formula C₁₇H₂₂N₂O₃

M.Wt 302.37

Solubility DMSO : 100 mg/mL (330.72 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**

Emivirine (MKC-442) is a non-nucleoside reverse transcriptase inhibitors (NNRTIs) with K_i values of 0.20 and 0.01 μ M for dTTP- and dGTP-dependent DNA or RNA polymerase activity, respectively. Emivirine displays potent and selective anti-human immunodeficiency virus type 1 (HIV-1) activity[1][2].

Emivirine (EMV) is also specific for HIV-1 RT and was without effect on HIV-2[2]. Emivirine (EMV) has no obvious toxicity for human healthy cells[2].

The approximate lethal oral dose of Emivirine (EMV) for rats was ≥ 3 g/kg for males and 2.5 g/kg for females[2].

[1]. Panita Decha, et al. Theoretical studies on the molecular basis of HIV-1RT/NNRTIs interactions. J Enzyme Inhib Med Chem. 2011 Feb;26(1):29-36.

[2]. G M Szczech, et al. Safety assessment, in vitro and in vivo, and pharmacokinetics of emivirine, a potent and selective nonnucleoside reverse transcriptase inhibitor of human immunodeficiency virus type 1. Antimicrob Agents Chemother. 2000 Jan;44(1):123-30.

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