
Product Data Sheet

Product Name: T-1105
Cat. No.: GC38244

Chemical Properties

Cas. No. 55321-99-8

SMILES O=C(C1=NC=CN=C1O)N

Formula C5H5N3O2 M.Wt 139.11

Solubility DMSO: 25 mg/mL (179.71 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

T-1105, a novel broad-spectrum viral polymerase inhibitor, structural analogue of T-705, inhibits the polymerases of RNA viruses after being converted to ribonucleoside triphosphate (RTP) metabolite[1]. T-1105 has antiviral activity against various RNA viruses, including Zika virus (ZIKV), influenza virus, arenaviruses, bunyaviruses, West Nile virus (WNV), yellow fever virus (YFV), and foot-and-mouth disease virus (FMDV). T-1105 can be formed by nicotinamide mononucleotide adenylyltransferase[2].

[1]. Huchting J, et al. Cell line-dependent activation and antiviral activity of T-1105, the non-fluorinated analogue of T-705 (favipiravir). *Antiviral Res.* 2019 Jul;167:1-5. [2]. Furuta Y, et al. T-705 (favipiravir) and related compounds: Novel broad-spectrum inhibitors of RNA viral infections. *Antiviral Res.* 2009 Jun;82(3):95-102.

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

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