

Product Data Sheet

Product Name: SAMT-247

Cat. No.: GC70228

Chemical Properties

Cas. No. 850715-59-2

Formula $C_{12}H_{14}N_2O_3S$

M.Wt 266.32

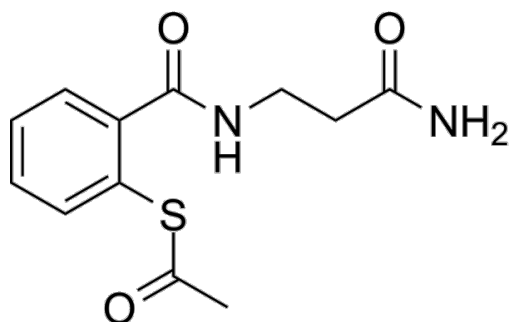
Solubility

Storage

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

SAMT-247 is a microbicide that selectively inactivate the viral nucleocapsid protein NCp7, causing zinc ejection and preventing RNA encapsidation. SAMT-247 shows good antiviral activity.

SAMT-247 covalently modifies the Gag polyprotein^[2].

SAMT-247 shows antiviral activity with an EC₅₀ of 0.6 μM in CEM-SS cells infected with HIV-1 IIIIB.

SAMT-247 shows low cellular toxicity (TC₅₀ > 100 μM)^[2].

A 1% gel formulation of SAMT-247 protected five of six rhesus macaques from vaginal challenge with

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

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a CCR5 (R5) -tropic SHIV^[3].

References:

- [1]. Helmold Hait S, et al. An SAMT-247 Microbicide Provides Potent Protection against Intravaginal Simian Immunodeficiency Virus Infection of Rhesus Macaques, whereas an Added Vaccine Component Elicits Mixed Outcomes. J Immunol. 2020 Jun 15;204(12):3315-3328.
- [2]. Miller Jenkins LM, et al. Small-molecule inactivation of HIV-1 NCp7 by repetitive intracellular acyl transfer. Nat Chem Biol. 2010 Dec;6(12):887-9.
- [3]. Cheng-Mayer C, et al. Delay of simian human immunodeficiency virus infection and control of viral replication in vaccinated macaques challenged in the presence of a topical microbicide. AIDS. 2011 Sep 24;25(15):1833-41.

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