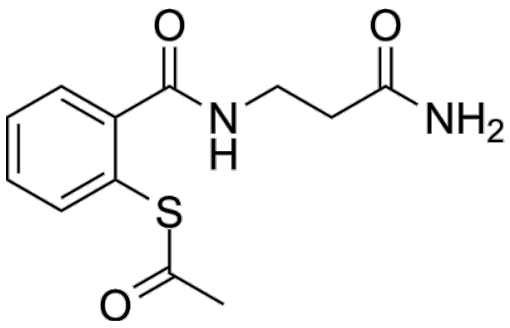
Product Data Sheet

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 EC_{50} of 0.6 μM in CEM-SS cells infected with HIV-1 $_{IIIB}$.
SAMT-247 shows low cellular toxicity (TC_{50} > 100 μM)[2].

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

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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.

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