

ATI-2341 acetate(1337878-62-2 free base)

## Chemical Properties

CAS No. :

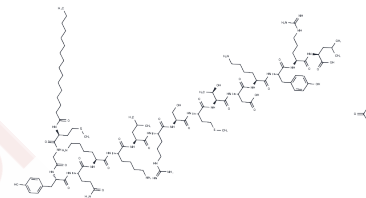
Formula: C106H182N26O27S2

Molecular Weight: 2316.87

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	ATI-2341 acetate is an effective allosteric agonist of CXCR4, it activates Gα1 instead of Gα13. ATI-2341 acetate activates inhibitory heterotrimeric G protein (Gi) to promote the inhibition of cAMP production and induce calcium mobilization.
Targets(IC50)	CXCR
In vitro	ATI-2341 induced CXCR4- and G protein-dependent signaling, receptor internalization, and chemotaxis in CXCR4-expressing cells[1].
In vivo	ATI-2341 induced dose-dependent peritoneal recruitment of PMNs when administered i. p. to mice. When administered systemically by i.v. bolus, ATI-2341 acted as a functional antagonist and dose-dependently mediated release of PMNs from the bone marrow of both mice and cynomolgus monkeys[1].

## Solubility Information

Solubility	DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	0.4316 mL	2.1581 mL	4.3162 mL
5 mM	0.0863 mL	0.4316 mL	0.8632 mL
10 mM	0.0432 mL	0.2158 mL	0.4316 mL
50 mM	0.0086 mL	0.0432 mL	0.0863 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Tchernychev B , Ren Y , Sachdev P , et al. Discovery of a CXCR4 agonist pepducin that mobilizes bone marrow hematopoietic cells[J]. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107 (51):p.22255-22259.

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