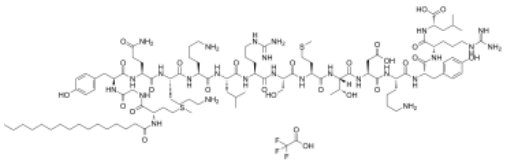
Product Data Sheet

Product Name: ATI-2341 TFA
Cat. No.: GC38541

Chemical Properties

Cas. No.			
Formula	$C_{106}H_{179}F_3N_{26}O_{27}S_2$	M.Wt	2370.84
Solubility	DMSO: 100 mg/mL (42.18 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

ATI-2341 is a potent and functionally selective allosteric agonist of C-X-C chemokine receptor type 4 (CXCR4), which functions as a biased ligand, favoring Gαi activation over Gα13. ATI-2341 activates the inhibitory heterotrimeric G protein (Gi) to promote inhibition of cAMP production and induce calcium mobilization. ATI-2341 is a potent and efficacious mobilizer of bone marrow polymorphonuclear neutrophils (PMNs) and hematopoietic stem and progenitor cells (HSPCs)[1][2].

CXCR4[1]

[1]. Quoyer J, et al. Pepducin targeting the C-X-C chemokine receptor type 4 acts as a biased agonist

favoring activation of the inhibitory G protein. Proc Natl Acad Sci U S A. 2013 Dec 24;110(52):E5088-97. [2]. Tchernychev B, et al. Discovery of a CXCR4 agonist pepducin that mobilizes bone marrow hematopoietic cells. Proc Natl Acad Sci U S A. 2010 Dec 21;107(51):22255-9.

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