ATI-2341 TFA

Cat. No.:	HY-P0172A			
Molecular Formula:	C ₁₀₆ H ₁₇₉ F ₃ N ₂₆ O ₂₇ S ₂			
Molecular Weight:	2370.84			
Sequence Shortening:	1-Oxohexadecyl-MGYQKKLRSMTDKYRL			
Target:	CXCR			
Pathway:	GPCR/G Protein; Immunology/Inflammation			
Storage:	Sealed storage, away from moisture			
	Powder -80°C 2 years			
	-20°C 1 year			
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)			

SOLVENT & SOLUBILITY

In Vitro		09 mM; Need ultrasonic) Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	0.4218 mL	2.1090 mL	4.2179 mL		
		5 mM	0.0844 mL	0.4218 mL	0.8436 mL		
		10 mM	0.0422 mL	0.2109 mL	0.4218 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (1.05 mM); Clear solution					
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.05 mM); Clear solution 					

BIOLOGICAL ACTIVITY				
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Description	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]			
In Vitro	CXCR4 ^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only.			



CUSTOMER VALIDATION

• Int Immunopharmacol. 2022 Sep 30;112:109288.

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REFERENCES

[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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