

XVA143

Chemical Properties

CAS No. : 264275-77-6

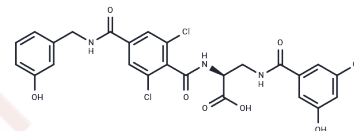
Formula: C₂₅H₂₁Cl₂N₃O₈

Molecular Weight: 562.36

Store at low temperature

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	XVA143 is an integrin α/β I-like allosteric antagonist that inhibits LFA-1 (α L β 2 integrin)-dependent firm adhesion and induces an extended conformation of integrins.
Targets(IC50)	Integrin
In vitro	In the Mn ²⁺ and Mg ²⁺ /EGTA systems, 1 μ M XVA143 completely blocks the binding of ICAM-1 to LFA-1 without exhibiting any agonist activity [1]. XVA143 can restore the rolling function of the α L-E310A β 2 mutant by inducing the extension of the α L Broussonetia papyrifera domain [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (142.26 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7782 mL	8.8911 mL	17.7822 mL
5 mM	0.3556 mL	1.7782 mL	3.5564 mL
10 mM	0.1778 mL	0.8891 mL	1.7782 mL
50 mM	0.0356 mL	0.1778 mL	0.3556 mL

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

Azucena Salas, et al. Rolling adhesion through an extended conformation of integrin alphaLbeta2 and relation to alpha I and beta I-like domain interaction. *Immunity*. 2004 Apr;20(4):393-406.

Mélanie R Tardif, et al. LFA-1 antagonists as agents limiting human immunodeficiency virus type 1 infection and transmission and potentiating the effect of the fusion inhibitor T-20. *Antimicrob Agents Chemother*. 2009 Nov;53(11):4656-66.

Hajishengallis G, et al. Complement receptor 3 blockade promotes IL-12-mediated clearance of *Porphyromonas gingivalis* and negates its virulence in vivo. *J Immunol*. 2007 Aug 15;179(4):2359-67.

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