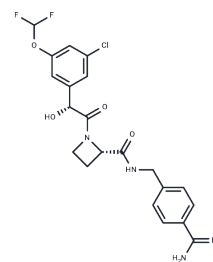


AR-H067637

Chemical Properties

CAS No. : 433937-74-7
 Formula: C₂₁H₂₁ClF₂N₄O₄
 Molecular Weight: 466.87
 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	AR-H067637 is a rapid-binding, reversible and potent (inhibition constant K(i) = 2-4 nM), competitive inhibitor of thrombin, as well as of thrombin bound to fibrin (clot-bound thrombin) or to thrombomodulin. The total amount of free thrombin generated in platelet-poor clotting plasma was inhibited concentration-dependently by AR-H067637, with a concentration giving half maximal inhibition (IC(50)) of 0.6 microM. AR-H067637 also inhibited thrombin-induced platelet activation (by glycoprotein IIb/IIIa exposure, IC(50) 8.4 nM) and aggregation (IC(50) 0.9 nM).
Targets(IC50)	Others,Thrombin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1419 mL	10.7096 mL	21.4192 mL
5 mM	0.4284 mL	2.1419 mL	4.2838 mL
10 mM	0.2142 mL	1.071 mL	2.1419 mL
50 mM	0.0428 mL	0.2142 mL	0.4284 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

- Pehrsson S, Johansson K, Kjaer M, Elg M. Evaluation of AR-H067637, the active metabolite of the new direct thrombin inhibitor AZD0837, in models of venous and arterial thrombosis and bleeding in anaesthetised rats. *Thromb Haemost.* 2010 Dec;104(6):1242-9. doi: 10.1160/TH09-10-0744. PubMed PMID: 20806126.
- Deinum J, Mattsson C, Inghardt T, Elg M. Biochemical and pharmacological effects of the direct thrombin inhibitor AR-H067637. *Thromb Haemost.* 2009 Jun;101(6):1051-9. PubMed PMID: 19492147.
- Lip GY, Rasmussen LH, Olsson SB, Jensen E, Hamrén B, Eriksson UG, Wåhlander K. Exposure-response for biomarkers of anticoagulant effects by the oral direct thrombin inhibitor AZD0837 in patients with atrial fibrillation. *Br J Clin Pharmacol.* 2015 Dec;80(6):1362-73. doi: 10.1111/bcp.12719. PubMed PMID: 26174611; PubMed Central PMCID: PMC4693476.
- Dunér K, Hulthe J, Tranberg M. Determination of the thrombin inhibitor AZD0837 and its metabolites in human bile using mixed mode solid phase extraction and LC-MS/MS. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2012 Sep 1;904:29-34. doi: 10.1016/j.jchromb.2012.06.026. PubMed PMID: 22871267.

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