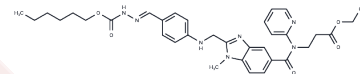


Dabigatran etexilate

Chemical Properties

CAS No. :	211915-06-9
Formula:	C ₃₄ H ₄₁ N ₇ O ₅
Molecular Weight:	627.73
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Dabigatran etexilate (BIBR 1048) is a thrombin inhibitor that binds to thrombin, blocking its thrombogenic activity and preventing thrombus formation.
Targets(IC50)	Thrombin
In vitro	Dabigatran has a concentration-dependent anticoagulant effect in various animals. Dabigatran reversibly inhibits human thrombin (K _i : 4.5 nM) and thrombin-induced platelet aggregation (IC ₅₀ = 10 nM).
In vivo	Dabigatran has a concentration-dependent anticoagulant effect in various animals. Dabigatran reversibly inhibits human thrombin (K _i : 4.5 nM) and thrombin-induced platelet aggregation (IC ₅₀ = 10 nM).

Solubility Information

Solubility	DMSO: 250 mg/mL (398.26 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 10 mg/mL (15.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (6.37 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.593 mL	7.9652 mL	15.9304 mL
5 mM	0.3186 mL	1.593 mL	3.1861 mL
10 mM	0.1593 mL	0.7965 mL	1.593 mL
50 mM	0.0319 mL	0.1593 mL	0.3186 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

- Wienen W, et al. Thromb Haemost, 2007, 98(1), 155-162.
- McKellar SH, et al. J Thorac Cardiovasc Surg, 2011, 141(6), 1410-1416.
- Wienen W, et al. Thromb Haemost, 2007, 98(2), 333-338.

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