

Rivaroxaban-D4

Chemical Properties

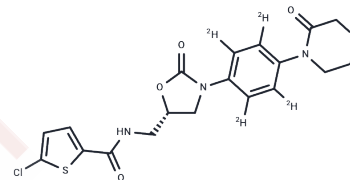
CAS No. : 1132681-38-9

Formula: C₁₉H₁₈ClN₃O₅S

Molecular Weight: 439.91

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	Rivaroxaban-D4 is a deuterated marker of Rivaroxaban (T1184) for isotopic tracing. Rivaroxaban (BAY 59-7939) is a highly potent and selective direct inhibitor of coagulation factor Xa (FXa), with an IC ₅₀ = 0.7 nM and a K _i of 0.4 nM.
Targets(IC ₅₀)	Factor Xa

Solubility Information

Solubility	DMSO: 40 mg/mL (90.93 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	2.2732 mL	11.366 mL	22.7319 mL
5 mM	0.4546 mL	2.2732 mL	4.5464 mL
10 mM	0.2273 mL	1.1366 mL	2.2732 mL
50 mM	0.0455 mL	0.2273 mL	0.4546 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

Roehrig S, et al. Discovery of the novel antithrombotic agent 5-chloro-N-(((5S)-2-oxo-3-[4-(3-oxomorpholin-4-yl)phenyl]-1,3-oxazolidin-5-yl)methyl)thiophene-2-carboxamide (BAY 59-7939): an oral, direct factor Xa inhibitor. *J Med Chem*. 2005 Sep 22;48(19)

Perzborn E, et al. In vitro and in vivo studies of the novel antithrombotic agent BAY 59-7939--an oral, direct Factor Xa inhibitor. *J Thromb Haemost*. 2005 Mar;3(3):514-21.

Iqbal M, et al. A simple and sensitive HILIC-based UHPLC-MS/MS method for quantifying of rivaroxaban in dried blood spots: Application in comparison with the plasma sample method. *J Pharm Biomed Anal*. 2021 May 10;198:114023.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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