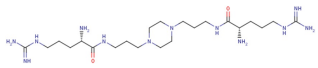
Data Sheet (Cat.No.T10820)

TargetMol
A DRUG SCREENING EXPERT

Ciraparantag

Chemical Properties



CAS No.:	1438492-26-2
Formula:	C22H48N12O2
Molecular Weight:	512.7
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Ciraparantag is an inhibitor of thrombin and factor Xa. Ciraparantag is a broad-spectrum reversal agent for anticoagulants, including unfractionated heparin, low-molecular-weight heparin, and certain direct oral anticoagulants.
Targets(IC_{50})	thrombin;factor Xa: None
In vitro	Ciraparantag is a small synthetic and cationic molecule that binds direct Xa inhibitors, direct thrombin inhibitors, and unfractionated and low molecular weight heparin (LMWH) through non-covalent hydrogen bonds and charge-charge interactions [3].

Solubility Information

Solubility	H2O: 31 mg/mL (60.46 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.95 mL	9.752 mL	19.505 mL
5 mM	0.39 mL	1.95 mL	3.901 mL
10 mM	0.195 mL	0.975 mL	1.95 mL
50 mM	0.039 mL	0.195 mL	0.39 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Das A, et al. Novel antidotes for target specific oral anticoagulants. Exp Hematol Oncol. 2015 Sep 15;4:25.
2. Gomez-Outes A, et al. Specific antidotes in development for reversal of novel anticoagulants: a review. Recent Pat Cardiovasc Drug Discov. 2014;9(1):2-10.
3. Hu TY, et al. Reversing anticoagulant effects of novel oral anticoagulants: role of ciraparantag, andexanet alfa, and idarucizumab. Vasc Health Risk Manag. 2016 Feb 17;12:35-44.
4. Honickel M, et al. The Reversal of Direct Oral Anticoagulants in Animal Models. Shock. 2017 Aug;48(2):144-158.

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