

Product Data Sheet

Product Name: Ciraparantag (trifluoroacetate salt)

Cat. No.: GC52327

Chemical Properties

Cas. No.

SMILES N=C(N)NCCC[C@H](N)C(NCCCN1CCN(CC1)CCCNC([C@@H](N)CCCNC(N)=N)=O)=O.O=C(F)(F)F=O

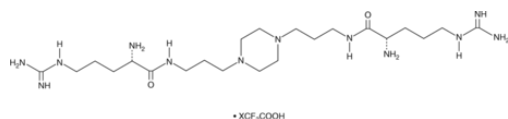
Formula C22H48N12O2 ? XCF3COOH M.Wt 512.7

Solubility Methanol: 10 mg/ml, Water: 10 mg/ml Storage -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Ciraparantag is an anticoagulant reversal agent.^{1,2} It selectively binds to unfractionated heparin, enoxaparin, and Factor IXa ($K_{ds} = 28, 17, \text{ and } 35 \mu\text{M}$, respectively) over edoxaban, rivaroxaban, Factor Xa, Factor IX, thrombin, antithrombin, and fibrinogen, and only weakly binds to an enoxaparin-antithrombin complex and fondaparinux, in cell-free assays.¹ Ciraparantag (200 $\mu\text{g/ml}$) prevents decreases in fibrin diameter induced by the Factor Xa inhibitor edoxaban in isolated human whole blood. It reduces edoxaban-, dabigatran-, apixaban-, rivaroxaban-, unfractionated heparin-, or enoxaparin-stimulated increases in tail transection-induced blood loss in rats.²

1. Kalathottukaren, M.T., Creagh, A.L., Abbina, S., et al. Comparison of reversal activity and mechanism of action of UHRA, andexanet, and PER977 on heparin and oral FXa inhibitors *Blood Adv.* 2(16):2104-2114 (2018) 2. Ansell, J., Laulicht, B.E., Bakhru, S.H., et al. Ciraparantag, an anticoagulant reversal drug: Mechanism of action, pharmacokinetics, and reversal of anticoagulants *Blood* 137(1):115-125 (2021)

Caution: Product has not been fully validated for medical applications. For research use only.

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