

Product Data Sheet

Product Name: Ximelagatran

Cat. No.: GC38332

Chemical Properties

Cas. No. 192939-46-1

SMILES O=C([C@@H]1CCN1C([C@@H](C2CCCCC2)NCC(OCC)=O)=O)NCC3=CC=C(C=C3)/C(N)=N/O

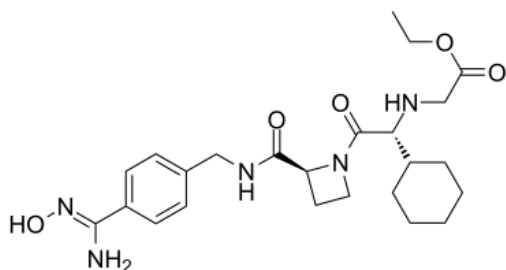
Formula $C_{24}H_{35}N_5O_5$ M.Wt 473.57

Solubility DMSO: 250 mg/mL (527.91 mM); Storage Store at -20°C
Methanol: 62.5 mg/mL (131.98 mM)

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

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

Structure



Background

Ximelagatran (H 376/95) is an orally active thrombin inhibitor that selectively and competitively inhibits both free and clot-bound thrombin. Ximelagatran is an anticoagulant agent with a rapid onset of anticoagulant effect, predictable, dose-dependent pharmacokinetics and pharmacodynamics[1][2].

Ximelagatran is an orally administered direct thrombin inhibitor under development as an

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anticoagulant agent for prophylaxis against and treatment of thromboembolism. Ximelagatran is rapidly absorbed and quickly converted into its active form Melagatran, a reversible, active-site inhibitor of both free and clot-bound thrombin that has stable and reproducible pharmacokinetic properties. Initial studies have shown Ximelagatran to have good efficacy and safety in the prevention of venous thromboembolism after total knee or total hip replacement[3].

[1]. Colwell CW Jr, et al. Comparison of ximelagatran, an oral direct thrombin inhibitor, with enoxaparin for the prevention of venous thromboembolism following total hip replacement. A randomized, double-blind study. J Thromb Haemost. 2003 Oct;1(10):2119-30. [2]. Gao JH, et al. Effects of different anticoagulant drugs on the prevention of complications in patients after arthroplasty: A network meta-analysis. Medicine (Baltimore). 2017 Oct;96(40):e8059. [3]. Francis CW, et al. Comparison of ximelagatran with warfarin for the prevention of venous thromboembolism after total knee replacement. N Engl J Med. 2003 Oct 30;349(18):1703-12.

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