

Product Data Sheet

Product Name: Argatroban-d3 (hydrochloride)

Cat. No.: GC46879

Chemical Properties

Cas. No. 1356847-56-7

SMILES O=S(C1=CC=CC2=C1NCC(C([2H])([2H])[2H])C2)(N[C@@H](CCCNC(N)=N)C(N3[C@@H](C(O)=O)C[C@H](C)CC3)=O)=O

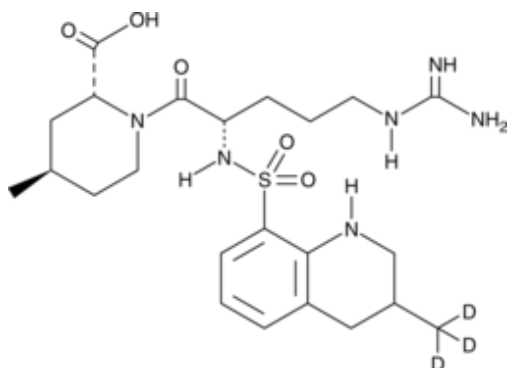
Formula C₂₃H₃₃D₃N₆O₅S.HCl M.Wt 548.1

Solubility DMF: soluble, DMSO: Storage Store at -20°C
soluble, Methanol: soluble

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

Argatroban-d₃ is intended for use as an internal standard for the quantification of argatroban by GC- or LC-MS. Argatroban is a reversible inhibitor of thrombin (IC₅₀s = 0.01 and 0.09 μM for the free and clot-bound forms, respectively).¹ It is selective for thrombin over factor Xa, trypsin, plasmin, and tissue plasminogen activator (K_is = 0.0045, 53, 0.19, 25.7, and 87.7 μM, respectively). It inhibits thrombin-induced platelet aggregation in washed isolated guinea pig platelets with an IC₅₀ value of

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

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0.077 μ M.² Argatroban (3.2 mg/kg, s.c.) decreases thrombus formation in a guinea pig model of iron chloride-induced arterial thrombosis. Formulations containing argatroban have been used in the prevention or treatment of thrombosis in patients with heparin-induced thrombocytopenia.

1.Park, H.D., Lee, S.H., Kim, T.H., et al.Antithrombotic effects of LB30870, a potent, orally active, selective and direct thrombin inhibitor, and pharmacokinetics of its prodrugBioorganic & Medicinal Chemistry Letters23(17)4779-4784(2013) 2.Kato, Y., Kita, Y., Hirasawa-Taniyama, Y., et al.Inhibition of arterial thrombosis by a protease-activated receptor 1 antagonist, FR171113, in the guinea pigEur. J. Pharmacol.473(2-3)163-169(2003)

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