
Product Data Sheet

Product Name: Rivaroxaban D4

Cat. No.: GC60326

Chemical Properties

Cas. No. 1132681-38-9

SMILES O=C(C1=CC=C(CI)S1)NC[C@H]2CN(C3=C([2H])C([2H])=C(N4C(COCC4)=O)C([2H])=C3[2H])C(O2)=OFormula C₁₉H₁₄D₄ClN₃O₅S

M.Wt 439.91

Solubility DMSO : 50 mg/mL (113.66 mM; Need ultrasonic)

Storage

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

Structure **Background**

Rivaroxaban-d₄ is intended for use as an internal standard for the quantification of rivaroxaban by GC- or LC-MS. Rivaroxaban is an orally active, direct inhibitor of Factor Xa (K_i = 0.4 nM), which is a crucial component of the intrinsic and extrinsic pathways of the blood coagulation cascade.¹ It demonstrates >10,000-fold greater selectivity for Factor Xa compared to other related serine proteases. In various animal arterial and venous thrombosis models, rivaroxaban is reported to inhibit thrombin formation without prolonging bleeding time. Formulations containing rivaroxaban have been used as an anticoagulant in the prevention of stroke and the treatment of venous thromboembolisms.^{2,3}

1. Turpie, A.G.G. Oral, direct factor Xa inhibitors in development for the prevention and treatment of thromboembolic diseases *Arterioscler. Thromb. Vasc. Biol.* 27(6):1238-1247(2007) 2. Babilonia, K., and Trujillo, T. The role of prothrombin complex concentrates in reversal of target specific anticoagulants *Thromb. J.* 12:8(2014) 3. Turpie, A.G.G. Rivaroxaban as an oral anticoagulant for stroke prevention in atrial fibrillation *Thromb. Clin. Risk Manag.* 10:197-205(2014)

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

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