



5-R-Rivaroxaban

Catalog No: tcsc0730

Z	Available Sizes
Size:	5mg
Size:	10mg
Size:	25mg
Size:	50mg
Size:	100mg
	Specifications
CAS I 86547	No: '9-71-6
Form	ula: _{.8} CIN ₃ O ₅ S
Path Metab	way: oolic Enzyme/Protease
Targe Factor	
Purit ; >98%	y / Grade:
Soluk 10 mN	oility: 4 in DMSO
	native Names: 9-7939





Observed Molecular Weight:

435.88

Product Description

5-R-Rivaroxaban is (R)-enantiomer of Rivaroxaban. Rivaroxaban (BAY 59-7939) is a highly potent and selective, direct **Factor Xa** (**FXa**) inhibitor, achieving a strong gain in anti-FXa potency (IC_{50} 0.7 nM; K_i 0.4 nM).

IC50 & Target: FXa^[1]

In Vitro: Rivaroxaban (BAY 59-7939) is an oral, direct Factor Xa (FXa) inhibitor in development for the prevention and treatment of arterial and venous thrombosis. Rivaroxaban competitively inhibits human FXa (K_i 0.4 nM) with >10 000-fold greater selectivity than for other serine proteases; it also inhibits prothrombinase activity (IC_{50} 2.1 nM). Rivaroxaban inhibits endogenous FXa more potently in human and rabbit plasma (IC_{50} 21 nM) than rat plasma (IC_{50} 290 nM). It demonstrates anticoagulant effects in human plasma, doubling prothrombin time (PT) and activates partial thromboplastin time at 0.23 and 0.69 μ M, respectively^[2].

In Vivo: Rivaroxaban (BAY 59-7939) is a potent and selective, direct FXa inhibitor with excellent in vivo activity and good oral bioavailability^[1]. Rivaroxaban (BAY 59-7939), administered by i.v. bolus before thrombus induction, reduces thrombus formation (ED $_{50}$ 0.1 mg/kg), inhibits FXa, and prolongs PT dose dependently. PT and FXa are affected slightly at the ED $_{50}$ (1.8-fold increase and 32% inhibition, respectively). At 0.3 mg/kg (dose leading to almost complete inhibition of thrombus formation), Rivaroxaban moderately prolongs PT (3.2±0.5-fold) and inhibits FXa activity $(65\pm3\%)^{[2]}$.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!