Product Data Sheet

Product Name: KF 13218
Cat. No.: GC32653

Chemical Properties

Cas. No.	127654-03-9		
SMILES	O=C(O)CCCC/C=C1C(C=NC=C2)=C2C(N(C)C3=CC=CC=C\13)=O		
Formula	$C_{20}H_{20}N_2O_3$	M.Wt	336.38
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	KF 13218		

Background

KF 13218 is a potent, selective and long lasting thromboxane B2 (TXB2) synthase inhibitor with an IC50 value of 5.3±1.3 nM.

KF 13218 inhibits human and bovine platelet thromboxane synthase with IC50 values of 27±5.8 nM (mean±S.E.M.) and 36±6.9 nM, respectively. KF 13218 does not inhibit cyclooxygenase or 5-lipoxygenase up to a dose of 100 μM and does not antagonize thromboxane A2/prostaglandin H2 receptors. KF 13218 inhibits arachidonic acid-induced thromboxane B2 production by human intact platelets with an IC50 value of 5.3±1.3 nM. The IC50 value of KF 13218 for the intact platelets is about 5 times lower than that for the microsomal enzyme. The inhibition of thromboxane synthase in platelets by KF 13218 is sustained after removal of the extracellular compound[1].

After oral dosing in rat from 0.03 mg/kg to 3 mg/kg, KF 13218 dose-dependently inhibits the thromboxane B2 production in serum, and the inhibition is retained for 72 h. KF 13218, at a dose of 0.1 mg/kg p.o. prevents mortality induced by sodium arachidonate in rabbit[1].

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[1]. Miki I, et al. A novel pyridobenzazepinone derivative with long lasting thromboxane synthase inhibition. Arzneimittelforschung. 1995 Oct;45(10):1066-70.

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