Product Data Sheet

Product Name: SR121566A
Cat. No.: GC31993

Chemical Properties

Cas. No.	180144-61-0		
SMILES	O=C(O)CN1CCC(N(C2=NC(C3=CC=C(C(N)=N)C=C3)=CS2)CCC(O)=O)CC1		
Formula	$C_{20}H_{25}N_5O_4S$	M.Wt	431.51
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	SR121566A		

Protocol

Animal experiment:

Male mice (26-30 g) are anesthetized, artificially ventilated, and placed on a heated jacket to control body temperature. A femoral vein is cannulated for i.v. injections. In thrombosis experiments, drugs including SR121566A are administered in 0.9% saline for intravenous studies (0.1 mL/30 g, 5 min before stimulation) and in water for oral studies (0.1 mL/30 g, 120 min before stimulation)[2].

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References:

[1]. Herault JP□et al. Effect of SR121566A, a potent GP IIb-IIIa antagonist on platelet-mediated thrombin generation in vitro and in vivo. Thromb Haemost. 1998 Feb;79(2):383-8.
[2]. Lorrain J, et al. Effects of SanOrg123781A, a synthetic hexadecasaccharide, in a mouse model of electrically induced carotid artery injury: synergism with the antiplatelet agent clopidogrel. J Pharmacol Exp Ther. 2004 Apr;309(1):235-40.

Background

SR121566A is a novel non-peptide Glycoprotein IIb/IIIa (GP IIb-IIIa) antagonist, which can inhibit ADP-, arachidonic acid- and collagen-induced human platelet aggregation with IC50s of 46±7.5, 56±6 and 42±3 nM, respectively.

SR121566A leads to dose-dependent increases in TTO, a statistically significant increase being observed at the doses of 0.3 mg/kg (473%) and 30 mg/kg (771%), respectively[2].

[1]. Herault JP□et al. Effect of SR121566A, a potent GP IIb-IIIa antagonist on platelet-mediated thrombin generation in vitro and in vivo. Thromb Haemost. 1998 Feb;79(2):383-8. [2]. Lorrain J, et al. Effects of SanOrg123781A, a synthetic hexadecasaccharide, in a mouse model of electrically induced carotid artery injury: synergism with the antiplatelet agent clopidogrel. J Pharmacol Exp Ther. 2004 Apr;309(1):235-40.