# Product Data Sheet

Product Name: Sibrafiban
Cat. No.: GC64571

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 172927-65-0 | | |
| Formula | C20H28N4O6 | M.Wt | 420.46 |
| Solubility | DMSO : 33.33 mg/mL (79.27 mM; Need ultrasonic) | 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 | Sibrafiban | | |

## Background

Sibrafiban (RO 48-3657) is the orally active, nonpeptide, double-prodrug of Ro 44-3888 and a selective glycoprotein IIb/IIIa receptor antagonist. Sibrafiban inhibits platelet aggregation[1][2][3].

The effects of site occupancy by Sibrafiban on platelet activation are assessed using P-selectin expression, fibrinogen binding and microaggregate formation. Sibrafiban inhibits ADP and TRAP-stimulated fibrinogen binding and microaggregate formation in a concentration-dependent manner, whereas P-selectin expression is relatively unaltered. A decrease in site occupancy from peak to trough of Sibrafiban does not result in increased activation of platelets[3].

The effects of Ro 44-3888 on the platelet aggregation response to ADP (17 μmol) and on cutaneous bleeding times is determined in 8 rhesus monkeys given Sibrafiban 0.25 mg/kg/day or 0.5 mg/kg/day orally for 8 days. The maximum inhibition of ex vivo platelet aggregation and prolongation of bleeding time by Ro 44-3888 are dose dependent[1].

[1]. M Dooley, et al. Sibrafiban. Drugs. 1999 Feb;57(2):225-30; discussion 231-2.
[2]. B Wittke, et al. Pharmacokinetics and pharmacodynamics of sibrafiban alone or in


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combination with ticlopidine and aspirin. Br J Clin Pharmacol. 2000 Mar;49(3):231-9.
[3]. Jeffrey T Billheimer, et al. Effects of glycoprotein IIb/IIIa antagonists on platelet activation: development of a transfer method to mimic peak to trough receptor occupancy. Thromb Res. 2002 Sep 15;107(6):303-17.


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