

Product Data Sheet

Product Name: Terutroban sodium

Cat. No.: GC79323

Chemical Properties

Cas. No. 609340-89-8

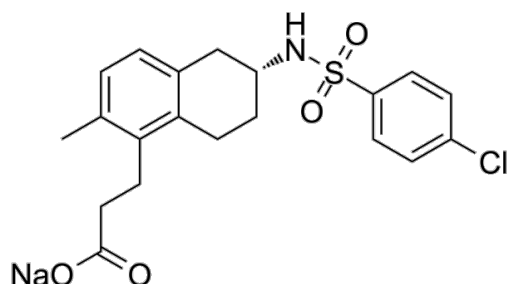
Formula $C_{20}H_{21}ClNNaO_4S$ M.Wt 429.89

Solubility DMSO: 50 mg/mL (116.31 mM; Need ultrasonic) Storage Store at 4°C, away from moisture

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

Structure



Background

Terutroban (S-18886) sodium is a selective and orally active thromboxane-prostaglandin (TP) receptor antagonist with an IC_{50} of 16.4 nM. Terutroban sodium inhibits TXA2 and prostaglandin endoperoxide receptors. Terutroban sodium is a potent antithrombotic agent and possesses anti-

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

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atherosclerotic and anti-vasoconstrictor properties [1] [2] [3].

In Vivo, Terutroban (30 mg/kg; i.g.; once a day; 6 weeks) sodium prevents aortic thickening, inhibits vascular cell proliferation, reduces vascular fibrosis, inhibits the expression of HSP47 and TGF-1 β without affecting blood pressure in spontaneously hypertensive stroke-prone rats (SHRSPs)^[2].

References:

- [1]. Wang X, et al. Potent, long-acting cyclopentane-1,3-Dione thromboxane (A₂)-receptor antagonists. ACS Med Chem Lett. 2014 Jul 24;5(9):1015-20.
- [2]. Gelosa P, et al. Terutroban, a thromboxane/prostaglandin endoperoxide receptor antagonist, prevents hypertensive vascular hypertrophy and fibrosis. Am J Physiol Heart Circ Physiol. 2011 Mar;300(3):H762-8.
- [3]. Lesault PF, et al. Daily administration of the TP receptor antagonist terutroban improved endothelial function in high-cardiovascular-risk patients with atherosclerosis. Br J Clin Pharmacol. 2011 Jun;71(6):844-851.

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