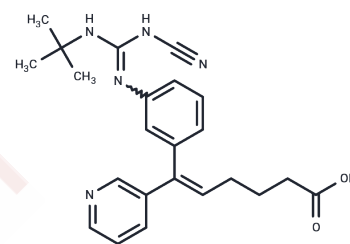


## Terbogrel

## Chemical Properties

CAS No. :	149979-74-8
Formula:	C <sub>23</sub> H <sub>27</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	405.49
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Terbogrel is an oral thromboxane A <sub>2</sub> receptor antagonist (IC <sub>50</sub> is about 10 nM) and thromboxane A <sub>2</sub> synthase inhibitor (IC <sub>50</sub> is about 10 nM). Terbogrel is an antiplatelet compound that inhibits platelet aggregation and is a potential compound for the prevention of blood clots.
Targets(IC <sub>50</sub> )	Prostaglandin Receptor
In vitro	Terbogrel inhibits collagen-induced platelet aggregation in human platelet-rich plasma and whole blood (IC <sub>50</sub> : 310 ± 18 nM (n = 8) and 52 ± 20 nM (n = 6), respectively). Terbogrel (1 μM) fully inhibits U46619-induced platelet aggregation (IC <sub>50</sub> : 10 nM). Pretreatment of platelets with terbogrel (1 μM) completely inhibits thrombin-induced thromboxane A <sub>2</sub> formation (2±1 ng/mL) but does not result in any inhibition of platelet aggregation. Terbogrel blocks the thromboxane A <sub>2</sub> /endoperoxide receptor on washed human platelets (IC <sub>50</sub> : 11 ± 6 nM (n = 2) and IC <sub>50</sub> : 38 ± 1 nM (n = 15) in platelet-rich plasma).[1][2]
In vivo	Terbogrel (10 mg/kg, p.o.) is rapidly and well (90%) absorbed with a systemic availability of about 30% in rats. Terbogrel (0.1-3.0 mg/kg) shows an impressive antithrombotic efficacy in rabbits.[2]

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (67.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.4662 mL	12.3308 mL	24.6615 mL
5 mM	0.4932 mL	2.4662 mL	4.9323 mL
10 mM	0.2466 mL	1.2331 mL	2.4662 mL
50 mM	0.0493 mL	0.2466 mL	0.4932 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Muck S, et al. Effects of terbogrel on platelet function and prostaglandin endoperoxide transfer. *Eur J Pharmacol.* 1998;344(1):45-48.

Soyka R, et al. Guanidine derivatives as combined thromboxane A<sub>2</sub> receptor antagonists and synthase inhibitors. *J Med Chem.* 1999;42(7):1235-1249.

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