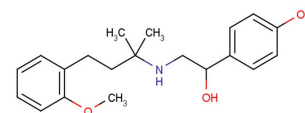


D2343

Chemical Properties

CAS No.:	72734-63-5
Formula:	C ₂₀ H ₂₇ NO ₃
Molecular Weight:	329.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	D2343 is an agonist of β 2-adrenoceptor. It also is an inhibitor of α 1- adrenoceptor.
Targets(IC ₅₀)	β 2-adrenoceptor: None α 1- adrenoceptor: None
In vitro	D2343 shows in addition an alpha 1-receptor inhibitory activity [1]. The beta 2-agonistic and alpha 1-antagonistic drug D2343 inhibits the evoked contractions in a concentration related fashion with 50% effect at 9.6 μ M [2].
In vivo	D2343 has shown an ability to relax the uterine muscles to the same degree as Terbutaline or even more, especially when the two drugs are compared in preparations from rabbit and rat. D2343 has been compared to the beta 2-agonist Terbutaline on oestrogenized uterine preparations from rat and in myometrial strips from homo and rabbit [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.036 mL	15.178 mL	30.355 mL
5 mM	0.607 mL	3.036 mL	6.071 mL
10 mM	0.304 mL	1.518 mL	3.036 mL
50 mM	0.061 mL	0.304 mL	0.607 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Olsson OA, et al. The effects in myometrial preparations of D2343, a beta 2-adrenoceptor agonist possessing alpha 1-receptor blocking qualities. *Acta Pharmacol Toxicol* (Copenh). 1984 Nov;55(5):391-7.
- Olsson OA, et al. The effect of D2343 in transmurally stimulated rabbit isthmus muscle. *Acta Pharmacol Toxicol* (Copenh). 1985 May;56(5):427-30.

Inhibitors · Natural Compounds · Compound Libraries

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