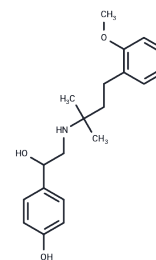


D2343

## Chemical Properties

CAS No. : 72734-63-5  
 Formula: C<sub>20</sub>H<sub>27</sub>NO<sub>3</sub>  
 Molecular Weight: 329.43  
 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	D2343 is an agonist of $\beta$ 2-adrenoceptor. It also is an inhibitor of $\alpha$ 1- adrenoceptor.
Targets(IC50)	Adrenergic Receptor
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 $\mu$ M [2].
In vivo	D2343 demonstrates a capacity to relax uterine muscles comparably or more effectively than Terbutaline, particularly when assessed in rabbit and rat preparations. This comparison extends to oestrogenized uterine preparations from rats and myometrial strips from both species, showcasing D2343's potential efficacy against the beta 2-agonist Terbutaline [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0355 mL	15.1777 mL	30.3555 mL
5 mM	0.6071 mL	3.0355 mL	6.0711 mL
10 mM	0.3036 mL	1.5178 mL	3.0355 mL
50 mM	0.0607 mL	0.3036 mL	0.6071 mL

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

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.

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