
Product Data Sheet

Product Name: D2343
Cat. No.: GC30665

Chemical Properties

Cas. No. 72734-63-5

SMILES OC(C1=CC=C(O)C=C1)CNC(C)(C)CCC2=C(C=CC=C2)OC

Formula $C_{20}H_{27}NO_3$ M.Wt 329.43

Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

D2343 is a β_2 -adrenoceptor agonist and also is an α_1 -adrenoceptor inhibitor.

D2343 is a compound with about the same beta 2-adrenoceptor-agonist effect as Terbutaline and exhibiting 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].

D2343 has been compared to the beta 2-agonist Terbutaline on oestrogenized uterine preparations from rat and rabbit and in myometrial strips from homo. 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[1].

[1]. 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. [2]. Olsson OA, et al. The effect of D2343 in transmurally stimulated rabbit isthmus muscle. Acta Pharmacol Toxicol (Copenh). 1985 May;56(5):427-30.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA