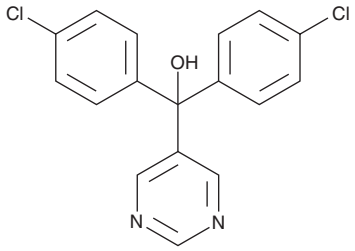
PRODUCT INFORMATION

LY43578

Item No. 46402

CAS Registry No.:	26766-35-8
Formal Name:	α,α-*bis*(4-chlorophenyl)-5-pyrimidinemethanol
Synonym:	NSC 626916
MF:	$C_{17}H_{12}Cl_2N_2O$
FW:	331.2
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

LY43578 is supplied as a solid. A stock solution may be made by dissolving the LY43578 in the solvent of choice, which should be purged with an inert gas. LY43578 is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

LY43578 is a nonsteroidal aromatase inhibitor (EC_{50} = 0.071 µM) and an active metabolite of LY56110.[1,2] Neonatal administration of LY43578 (5 mg/kg) increases ambulation and decreases the defecation rate in the open field test, decreases mounts and intromissions, and increases the lordotic quotient in adult male rats, indicating feminine-like behavior.[3] However, it does not induce feminine-like behavior in adult male rats when administered on postnatal day 12.[4] LY43578 increases sleep time induced by the sedative ethinamate in rats at 10 mg/kg.[2]

References

1. Jones, C.D., Winter, M.A., Hirsch, K.S., *et al.* Estrogen synthetase inhibitors. 2. Comparison of the in vitro aromatase inhibitory activity for a variety of nitrogen heterocycles substituted with diarylmethane or diarylmethanol groups. *J. Med. Chem.* **33(1),** 416-429 (1990).
2. Lindstrom, T.D. and Whitaker, G.W. Disposition of the aromatase inhibitor LY56110 and associated induction and inhibition studies in rats, dogs, and monkeys. *Fundam. Appl. Toxicol.* **8(4),** 595-604 (1987).
3. González, M.I. and Leret, M.L. Role of monoamines in the male differentiation of the brain induced by androgen aromatization. *Pharmacol. Biochem. Behav.* **41(4),** 733-737 (1992).
4. Gonzalez, M.I. and Leret, M.L. Injection of an aromatase inhibitor after the critical period of sexual differentiation. *Pharmacol. Biochem. Behav.* **47(1),** 183-186 (1994).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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