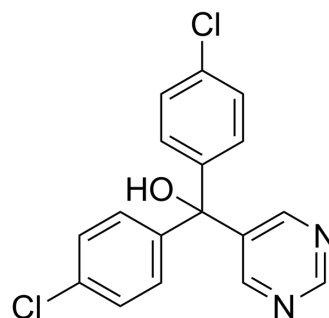


## LY43578

<b>Cat. No.:</b>	HY-118178
<b>CAS No.:</b>	26766-35-8
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>12</sub> Cl <sub>2</sub> N <sub>2</sub> O
<b>Molecular Weight:</b>	331.2
<b>Target:</b>	Cytochrome P450; Monoamine Oxidase
<b>Pathway:</b>	Metabolic Enzyme/Protease; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (301.93 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		3.0193 mL	15.0966 mL	30.1932 mL
		<b>5 mM</b>		0.6039 mL	3.0193 mL	6.0386 mL
<b>10 mM</b>		0.3019 mL	1.5097 mL	3.0193 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.55 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.55 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	LY43578 is an orally active aromatase inhibitor. LY43578 inhibits P-450-dependent p-nitroanisole O-demethylation and ethylmorphine N-demethylation in hepatic microsomes isolated from rat, with the IC <sub>50</sub> of 0.3 and 5 μM, respectively. LY43578 can be used for neurological disorder study <sup>[1][2]</sup> .
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### REFERENCES

- [1]. Lindstrom TD, et al. Disposition of the aromatase inhibitor LY56110 and associated induction and inhibition studies in rats, dogs, and monkeys. *Fundam Appl Toxicol.* 1987;8(4):595-604.
- [2]. Gonzalez MI, et al. Injection of an aromatase inhibitor after the critical period of sexual differentiation. *Pharmacol Biochem Behav.* 1994;47(1):183-186.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA