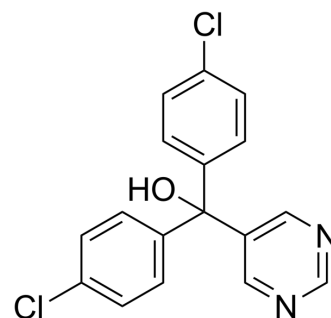


LY43578

| | | |
|---------------------------|--|---------------------------------|
| Cat. No.: | HY-118178 | |
| CAS No.: | 26766-35-8 | |
| Molecular Formula: | C ₁₇ H ₁₂ Cl ₂ N ₂ O | |
| Molecular Weight: | 331.2 | |
| Target: | Cytochrome P450; Monoamine Oxidase | |
| Pathway: | Metabolic Enzyme/Protease; Neuronal Signaling | |
| Storage: | Powder | -20°C 3 years 4°C 2 years |
| | In solvent | -80°C 6 months -20°C 1 month |



SOLVENT & SOLUBILITY

| | | | | | |
|---|--|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 100 mg/mL (301.93 mM; Need ultrasonic) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 3.0193 mL | 15.0966 mL | 30.1932 mL |
| | | 5 mM | 0.6039 mL | 3.0193 mL | 6.0386 mL |
| 10 mM | | 0.3019 mL | 1.5097 mL | 3.0193 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 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

| | |
|--------------------|--|
| Description | 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 ₅₀ of 0.3 and 5 μM, respectively. LY43578 can be used for neurological disorder study ^{[1][2]} . |
|--------------------|--|

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.

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

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