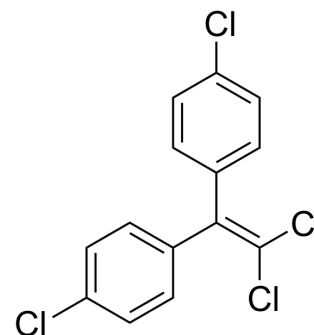


p,p'-DDE

| | |
|--------------------|--|
| Cat. No.: | HY-B1986 |
| CAS No.: | 72-55-9 |
| Molecular Formula: | C ₁₄ H ₈ Cl ₄ |
| Molecular Weight: | 318.03 |
| Target: | Androgen Receptor; Drug Metabolite |
| Pathway: | Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | | |
|---|--|--------------------------|------|-------|-----------|------------|------------|
| In Vitro | DMSO : 100 mg/mL (314.44 mM; Need ultrasonic) | | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg | |
| | | | | 1 mM | 3.1444 mL | 15.7218 mL | 31.4436 mL |
| | | | | 5 mM | 0.6289 mL | 3.1444 mL | 6.2887 mL |
| | | | | 10 mM | 0.3144 mL | 1.5722 mL | 3.1444 mL |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.86 mM); Clear solution | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.86 mM); Clear solution | | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|---|
| Description | p,p'-DDE (4,4'-DDE), a major metabolite of persistent dichlorodiphenyltrichloroethane (DDT), is a potent androgen receptor antagonist, with an IC ₅₀ of 5 μM and a K _i of 3.5 μM ^[1] . |
|-------------|---|

REFERENCES

[1]. Kelce WR, et al. Persistent DDT metabolite p,p'-DDE is a potent androgen receptor antagonist. Nature. 1995;375(6532):581-585.

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

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