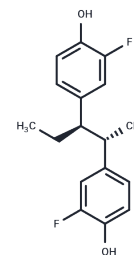


Bifluranol

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 34633-34-6 |
| Formula: | C ₁₇ H ₁₈ F ₂ O ₂ |
| Molecular Weight: | 292.32 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|---|
| Description | Bifluranol (BX341) has anti-androgenic activity and has shown significant anti-prostatic activity in in vivo studies for the treatment of benign prostatic hyperplasia (BPH). |
| Targets(IC50) | Androgen Receptor |
| In vivo | Bifluranol has been studied for its absorption, distribution, and excretion in mouse, rat, ferret, and dog. Following oral administration, Bifluranol is readily absorbed, but its blood concentrations are low due to hepatic uptake and biliary excretion. After the intravenous administration of [³ H]Bifluranol at doses of 200 µg/kg in rats and 60 µg/kg in ferrets, the blood concentrations of 3H decline rapidly during the first 2 to 3 hours. The decrease is more rapid in females (18 min for rats, 30 min for ferrets) than in males (1.0 h for rats, 1.4 h for ferrets). This initial rapid decline is followed by a much slower decrease (40 h for rats, 20 h for ferrets) to concentrations at 96 hours of less than 15 ng Bifluranol equivalents mL ⁻¹ (rat) or 1 ng Bifluranol equivalents mL ⁻¹ (ferret)[1]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 90 mg/mL (307.88 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.29 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|------------|------------|-------------|
| 1 mM | 3.4209 mL | 17.1045 mL | 34.2091 mL |
| 5 mM | 0.6842 mL | 3.4209 mL | 6.8418 mL |
| 10 mM | 0.3421 mL | 1.7105 mL | 3.4209 mL |
| 50 mM | 0.0684 mL | 0.3421 mL | 0.6842 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pope DJ, et al. Bifluranol, a novel fluorinated bibenzyl anti-androgen, its chemistry and disposition in different animal species. J Pharm Pharmacol. 1981 May;33(5):297-301.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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