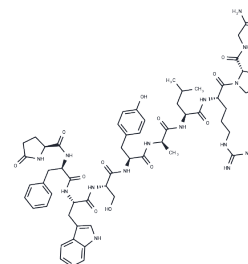


## [D-Phe2,D-Ala6]-LH-RH

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 54784-44-0  |
| Formula:          | C59H79N15O13  |
| Molecular Weight: | 1206.35   |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><small>Actual storage temperature shall be subject to the COA.</small> |



## Biological Description

|               |   |
|---------------|---|
| Description   | [D-Phe2,D-Ala6]-LH-RH is a potent luteinizing hormone-releasing hormone (LH-RH) antagonist, exhibiting significant activity against LH/FSH-RH and possessing the ability to inhibit ovulation [1].  |
| Targets(IC50) | GNRH Receptor   |
| In vivo       | [D-Phe2,D-Ala6]-LH-RH effectively suppresses the release of luteinizing hormone (LH) and follicle-stimulating hormone (FSH) stimulated by LH-RH in immature male rats [1]. Administered subcutaneously at 1 mg/rat, the compound shows significant anti-ovulatory and contraceptive effects [2]. A single subcutaneous dose at varying concentrations (0.625, 1.25, 2.5 mg/kg) leads to a dose-dependent enhancement of LH-RH activity in the stalk-median eminence (SME) while reducing plasma LH-RH activity in 25-day-old hypophysectomized (hypox) rats [3]. A higher dose of 25 mg/kg, administered subcutaneously, effectively prevents ovulation induced by LRH [4]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.8289 mL | 4.1447 mL | 8.2895 mL |
| 5 mM  | 0.1658 mL | 0.8289 mL | 1.6579 mL |
| 10 mM | 0.0829 mL | 0.4145 mL | 0.8289 mL |
| 50 mM | 0.0166 mL | 0.0829 mL | 0.1658 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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