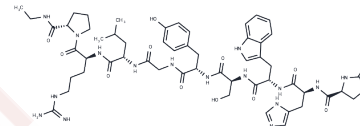


## Fertirelin

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 38234-21-8  |
| Formula:          | C55H76N16O12  |
| Molecular Weight: | 1153.29   |
| Storage:          | Keep away from moisture<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br><i>Actual storage temperature shall be subject to the COA.</i> |



## Biological Description

|               |   |
|---------------|---|
| Description   | Fertirelin, or fertirelin acetate, sold under the brand name Ovalyse, is a gonadotropin-releasing hormone agonist (GnRH agonist).   |
| Targets(IC50) | Others,GNRH Receptor  |
| In vivo       | Fertirelin, a GnRH analog, is 2.5 to 10 times more potent than native GnRH, making it the preferred treatment for reversing follicular cysts[1]. High-dose administration of Fertirelin has been shown to diminish superovulatory responses[2]. |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 11.6 mg/mL (10.06 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.73 mM),Sonication is recommended.<br><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

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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 0.8671 mL  | 4.3354 mL  | 8.6708 mL   |
| 5 mM  | 0.1734 mL  | 0.8671 mL  | 1.7342 mL   |
| 10 mM | 0.0867 mL  | 0.4335 mL  | 0.8671 mL   |
| 50 mM | 0.0173 mL  | 0.0867 mL  | 0.1734 mL   |

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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

Nakao T et al. Effect of fenprostalene 14 days after fertirelin treatment on intervals from treatment to conception in cows with follicular cysts diagnosed by milk progesterone test. J Vet Med Sci. 1993 Apr;55(2):207-10.

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