

## Lecirelin

Cat. No.:	HY-P0051		
CAS No.:	61012-19-9		
Molecular Formula:	C <sub>59</sub> H <sub>84</sub> N <sub>16</sub> O <sub>12</sub>		
Molecular Weight:	1209.4		
Sequence Shortening:	{Glp}-HWSYVLRP		
Target:	GnRH Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-80°C	2 years
		-20°C	1 year
	In solvent	-80°C	6 months
		-20°C	1 month

{Glp}-HWSYVLRP

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 12.1 mg/mL (10.00 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		0.8269 mL	4.1343 mL	8.2686 mL
	5 mM		0.1654 mL	0.8269 mL	1.6537 mL
	10 mM		0.0827 mL	0.4134 mL	0.8269 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Lecirelin, a synthetic gonadotropin-releasing hormone (GnRH) analogue, acts as a GnRH agonist. Lecirelin is widely used for the research of bovine ovarian follicular cysts<sup>[1]</sup>.

#### In Vitro

Lecirelin (2.07 μM) significantly increases the tension and frequency of contractions in preovulatory follicles (PF), small follicular cysts (FC-S), and large follicular cysts (FC-L)<sup>[1]</sup>.  
Lecirelin increases the strips from preovulatory follicles contract significantly more than strips from cysts<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Rizzo A et al. Bovine ovarian follicular cysts: in vitro effects of lecirelin, a GnRH analogue. Theriogenology. 2010 Dec;74(9):1559-69.

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

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