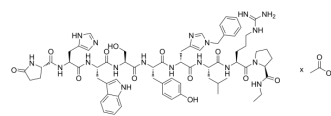


Histrelin acetate

Cat. No.:	HY-P0056A
CAS No.:	220810-26-4
Molecular Formula:	C ₆₆ H ₈₆ N ₁₈ O ₁₂ ·xC ₂ H ₄ O ₂
Sequence:	{Pyr}-His-Trp-Ser-Tyr-(d-His(Bzl))-Leu-Arg-Pro-{NH ₂ Et}
Sequence Shortening:	{Pyr}-HWSY-{d-His(Bzl)}-LRP-{NH ₂ Et}
Target:	GnRH Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Histrelin acetate, a GnRH analogue, is a GnRH Receptor agonist. Histrelin acetate increases serum luteinising hormone (LH), follicle stimulating hormone (FSH) and testosterone levels. Histrelin acetate can be used in the research of prostate cancer, endometriosis ^{[1][2][5]} .
In Vitro	Histrelin (10-100 nM) acetate stimulates the release of vasopressin (VP) from from isolated rat hypothalamo-neurohypophysial explants ^[4] . Histrelin (100 nM) acetate stimulates oxytocin (OT) release from the rat hypothalamo-neurohypophysial system ^[5] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Histrelin (0.1 mg/kg, subcutaneous injection) acetate rescues the circulating LH concentrations in Csfm ^{OP} /Csfm ^{OP} mice ^[2] . Histrelin (10,30, or 100 µg /day, subcutaneous injection) acetate reduces the number of endometrial glands and atrophied the stroma in rabbits ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Emma D Deeks, et al. Histrelin: in advanced prostate cancer. *Drugs*. 2010 Mar 26;70(5):623-30.
- [2]. Marlena Juszczak, et al. Hypothalamic gonadotropin-releasing hormone receptor activation stimulates oxytocin release from the rat hypothalamo-neurohypophysial system while melatonin inhibits this process. *Brain Res Bull*. 2010 Jan 15;81(1):185-90.
- [3]. P E Cohen, et al. Colony-stimulating factor-1 plays a major role in the development of reproductive function in male mice. *Mol Endocrinol*. 1997 Oct;11(11):1636-50.

[4]. D W Hahn, et al. Development of an animal model for quantitatively evaluating effects of drugs on endometriosis. Fertil Steril. 1985 Sep;44(3):410-5.

[5]. E Boczek-Leszczuk, et al. Vasopressin release from the rat hypothalamo-neurohypophysial system: effects of gonadotrophin-releasing hormone (GnRH), its analogues and melatonin. J Physiol Pharmacol. 2010 Aug;61(4):459-66.

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

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