## Enclomiphene

Cat. No.:	HY-118861	
CAS No.:	15690-57-0	
Molecular Formula:	C <sub>26</sub> H <sub>28</sub> CINO	
Molecular Weight:	405.96	CI
Target:	Estrogen Receptor/ERR	
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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BIOLOGICAL ACTIVI		
Description	Enclomiphene ((E)-Clomiphe antioestrogenic property. En hypogonadism and type 2 di	ene) is a potent and orally active non-steroidal estrogen receptor antagonist, with nclomiphene can be used for the research of ovarian dysfunction, testosterone deficiency, male jabetes <sup>[1]</sup> .
In Vitro	Enclomiphene (0-100 μM, 6 h cell progesterone secretion <sup>[2</sup> Enclomiphene (0-100 μg/mL degeneration rates in mouse Enclomiphene (1 nM-10 μM, secretion in primary sheep p MCE has not independently o	n) dose-dependently inhibits basal and gonadotrophin-stimulated small and large ovine luteal 2]. , 24 h) dose-dependently inhibits fertilization rates, blastocyst formation rates, and e oocytes <sup>[3]</sup> . 6 h) dose-dependently decreases E2-induced inhibition of follicle stimulating hormone (FSH) bituitary cells <sup>[4]</sup> . confirmed the accuracy of these methods. They are for reference only.
In Vivo	Enclomiphene (subcutaneou luteinizing hormone (LH) and Enclomiphene (oral adminst cholesterol <sup>[6]</sup> . MCE has not independently o	us injection, 0.25 and 0.5 mg/animal, daily) inhibits spermatogenesis and decreases serum d testosterone levels in intact or castrated rats <sup>[5]</sup> . cration, 0.03-3 mg/kg, daily for 90 days) reductes body weight to sham levels, and reduced serum confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	21 days-old Charles River male rats <sup>[5]</sup>
	Dosage:	0.25 and 0.5 mg/animal, daily for 24 days.
	Administration:	Subcutaneous injection
	Result:	Decreased LH and testosterone levels in the serum.
	Animal Model:	OVX (ovariectomy) rat model <sup>ioj</sup>
	Dosage:	0.03, 1, and 3 mg/kg, daily for 90 days.
	Administration:	Oral adminstration
	Result:	Reducted body weight to sham levels, and reduced serum cholesterol.



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# Product Data Sheet

	Showed dose-dependent effects on the proximal tibia with BMD and BMC approaching posttreatment Sham levels.
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### CUSTOMER VALIDATION

• Viruses. 2021 Jun 28;13(7):1255.

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#### REFERENCES

[1]. Rodriguez KM, et al. Enclomiphene citrate for the treatment of secondary male hypogonadism. Expert Opin Pharmacother. 2016 Aug;17(11):1561-7.

[2]. M S Opsahl, et al. Effects of enclomiphene and zuclomiphene on basal and gonadotrophin-stimulated progesterone secretion by isolated subpopulations of small and large ovine luteal cells. Hum Reprod. 1996 Jun;11(6):1250-5.

[3]. G E Schmidt, et al. The effects of enclomiphene and zuclomiphene citrates on mouse embryos fertilized in vitro and in vivo. Am J Obstet Gynecol. 1986 Apr;154(4):727-36.

[4]. E S Huang, et al. Estrogenic and antiestrogenic effects of enclomiphene and zuclomiphene on gonadotropin secretion by ovine pituitary cells in culture. Endocrinology. 1983 Feb;112(2):442-8.

[5]. R Weissenberg, et al. The effect of clomiphene citrate and its Zu or En isomers on the reproductive system of the immature male rat. Andrologia. 1992 May-Jun;24(3):161-5.

[6]. R T Turner, et al. Differential responses of estrogen target tissues in rats including bone to clomiphene, enclomiphene, and zuclomiphene. Endocrinology. 1998 Sep;139(9):3712-20.

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

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