Product Datasheet

Enclomiphene

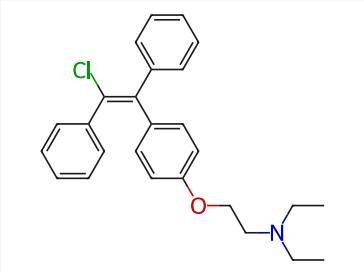
Catalog No. **BP-08725** · CAS **15690-57-0** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-11-12**

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Target	Research area
Estrogen Receptor/ERR	**Metabolic Disease; Endocrinology**

Molecular formula	—
Molecular weight	—

STRUCTURE



DESCRIPTION

Enclomiphene ((E)-Clomiphene) is a potent and orally active non-steroidal estrogen receptor antagonist, with antioestrogenic property. Enclomiphene can be used for the research of ovarian dysfunction, testosterone deficiency, male hypogonadism and type 2 diabetes .

BIOLOGICAL ACTIVITY

In Vitro

Enclomiphene (0-100 μM, 6 h) dose-dependently inhibits basal and gonadotrophin-stimulated small and large ovine luteal cell progesterone secretion[2].

Enclomiphene (0-100 μg/mL, 24 h) dose-dependently inhibits fertilization rates, blastocyst formation rates, and degeneration rates in mouse oocytes[3].

Enclomiphene (1 nM-10 μM, 6 h) dose-dependently decreases E2-induced inhibition of follicle stimulating hormone (FSH) secretion in primary sheep pituitary cells[4].

In Vivo

Enclomiphene (subcutaneous injection, 0.25 and 0.5 mg/animal, daily) inhibits spermatogenesis and decreases serum luteinizing hormone (LH) and testosterone levels in intact or castrated rats[5].

Enclomiphene (oral adminstration, 0.03-3 mg/kg, daily for 90 days) reductes body weight to sham levels, and reduced serum cholesterol[6].

SOLUBILITY

Soluble in DMSO : 100 mg/mL

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.