

5mg

Catalog No: Fadrozole hydrochloride



Available Sizes

Size: c14h14cln3



Specifications

CAS No:

casno

Formula:

102676⁻³¹3

Pathway:

Aromatase

Target:

Fadrozole hydrochloride is a potent, selective and nonsteroidal inhibitor of **aromatase** with an **IC₅₀** of 6.4 nM. IC50 & Target: IC50: 6.4 nM (aromatase)^[1] **In Vitro:** Fadrozole hydrochloride is a potent, selective and nonsteroidal inhibitor of aromatase with an IC₅₀ of 6.4 nM. In hamster ovarian slices, Fadrozole hydrochloride inhibits the production of estrogen with an IC₅₀ of 0.03 μM. The production of progesterone is inhibited with an IC₅₀ of 120 μM. Synthesis of other cytochrome P-450 dependent steroids can be suppressed to various degrees with higher doses of Fadrozole hydrochloride^[1]. **In Vivo:** Fadrozole hydrochloride is able to inhibit the aromatase-mediated androstenedione-induced uterine hypertrophy in immature female rats with an ED₅₀ of 0.03 mg/kg when given orally. In the same model, aminoglutethimide elicits the same effect with an ED₅₀ of 30 mg/kg when given orally^[1]. Fadrozole hydrochloride prevents the development of both benign and malignant spontaneous mammary neoplasms in female Sprague-Dawley rats. It also slows the spontaneous development of pituitary pars distalis adenomas in female rats, and reduces the incidence of spontaneous hepatocellular tumours in male and female rats^[2]. Administration of Fadrozole hydrochloride in male and female mice suppresses the production of 17β-estradiol, accompanied with a 70% reduction in parasite burden. This protective effect is associated in male mice with a recovery of the specific cellular immune response. Interleukin-6 (IL-6) serum levels, and its production by splenocytes, is augmented by 80%, together with a 10-fold increase in its expression in testes of infected male mice. Fadrozole hydrochloride treatment returns these levels to baseline values^[3].

Purity / Grade:

259.73

Solubility:

No Development Reported

Alternative Names:

60

Observed Molecular Weight:

CGS 16949A



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!