



Anastrozole

Catalog No: tcsc0716

Available Sizes
Size: 10mg
Size: 50mg
Size: 100mg
Size: 200mg
Size: 500mg
Specifications
CAS No: 120511-73-1
Formula: C ₁₇ H ₁₉ N ₅
Pathway: Others
Target: Aromatase
Purity / Grade: >98%
Solubility: DMSO : ≥ 150 mg/mL (511.30 mM)
Alternative Names: ZD1033





Observed Molecular Weight:

293.37

Product Description

Anastrozole is a potent, highly selective **aromatase** inhibitor, which inhibits human placental aromatase with an IC_{50} of 15 nM.

IC50 & Target: IC50: 15 nM (human aromatase)[1]

In Vitro: Anastrozole is a comparatively simple, achiral benzyltriazole derivative, that inhibits human placental aromatase with an IC of 15 nM. In the same assay it is 200 times as potent as aminoglutethimide (AG), twice as potent as 4-OHA and one third as potent as Fadrozole^[1].

In Vivo: Groups of eight immature (22-day-old) female rats are given androstenedione (AD) (30 mg/kg) in arachis oil s.c. daily for

3 days with or without various doses of Anastrozole p.o. on day 4 the uteri are dissected, blotted and weighed. An oral dose of 0.1 mg/kg of Anastrozole given on day 2 or day 3 of the cycle completely blocked ovulation. At the same daily dosage (0.1 mg/kg), Anastrozole completely extinguished the uterotrophic activity of exogenous AD in immature rats. In male pigtailed monkeys, twice-daily oral treatment with 0.1 mg/kg and above of Anastrozole reduced circulating oestradiol concentrations by 50-60%^[1].



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