Raloxifene

Cat. No.: HY-13738

CAS No.: 84449-90-1

Molecular Formula: $C_{28}H_{27}NO_4S$

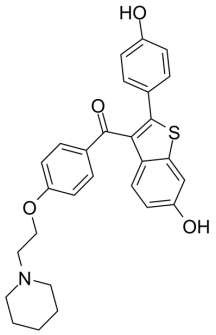
Molecular Weight: 473.58

Target: Estrogen Receptor/ERR

Pathway: Vitamin D Related/Nuclear Receptor

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (211.16 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1116 mL	10.5579 mL	21.1158 mL
	5 mM	0.4223 mL	2.1116 mL	4.2232 mL
	10 mM	0.2112 mL	1.0558 mL	2.1116 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Raloxifene (Keoxifene) is a benzothiophene-derived selective estrogen receptor modulator (SERM). Raloxifene has estrogen-agonistic effects on bone and lipids and estrogen-antagonistic effects on the breast and uterus. Raloxifene is used for breast cancer and osteoporosis research[1].

IC_{50} & Target

Estrogen receptor

In Vivo

Raloxifene (4 mg/kg; intragastrically; daily for 13 weeks) significantly prevents bone loss in ovariectomized (OVX) rats[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female, 12-week-old, Wistar rats (OVX rats)[1]
Dosage:	4 mg/kg
Administration:	Intragastrically; daily for 13 weeks

Result:	Significantly increased the levels of E2 in OVX rats and significantly decreased the levels of BGP.

CUSTOMER VALIDATION

- Free Radic Biol Med. 2017 Apr 10;108:404-417.
- Viruses. 2021 Jun 28;13(7):1255.
- ACS Omega. 2023 Jun 14.
- PLoS Negl Trop Dis. 2019 Aug 20;13(8):e0007681.
- J Pharmaceut Biomed. 2020, 113870.

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REFERENCES

[1]. Khovidhunkit W, et al. Clinical effects of raloxifene hydrochloride in women. Ann Intern Med. 1999;130(5):431-439.

[2]. Xu H, et al. Effect of caffeine on ovariectomy-induced osteoporosis in rats. Biomed Pharmacother. 2019;112:108650.

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