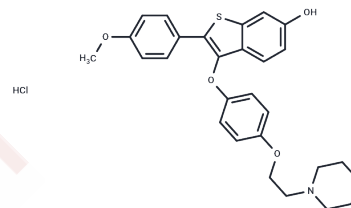


## Arzoxifene hydrochloride

## Chemical Properties

CAS No. :	182133-27-3
Formula:	C <sub>28</sub> H <sub>30</sub> ClNO <sub>4</sub> S
Molecular Weight:	512.06
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Arzoxifene hydrochloride is a selective estrogen receptor modulator that is a potent estrogen antagonist in mammary and uterine tissue.
Targets(IC50)	Estrogen Receptor/ERR,Others
In vitro	Arzoxifene inhibits cell growth as effectively as the antiestrogen tamoxifen, demonstrating statistically significant inhibition of pS2 and progesterone receptor B mRNA expression along with a significant agonistic effect on antitrypsin mRNA expression. Unlike estradiol and tamoxifen, arzoxifene does not upregulate cathepsin D mRNA and protein expression.
In vivo	Arzoxifene counteracts the ovariectomy-induced increase in body weight and serum cholesterol in treated rats, effectively reducing them below sham levels in a dose-dependent manner, with maximum efficacy comparable to estrogen or raloxifene. It prevents bone loss due to ovariectomy, showing maximal efficacy at 0.1-1 mg/kg/day [ED50: approximately 0.01 mg/kg]. Additionally, arzoxifene mitigates the estrogen-induced rise in uterine weight to vehicle-dosed control levels [ED50: 0.03 mg/kg/day].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9529 mL	9.7645 mL	19.529 mL
5 mM	0.3906 mL	1.9529 mL	3.9058 mL
10 mM	0.1953 mL	0.9764 mL	1.9529 mL
50 mM	0.0391 mL	0.1953 mL	0.3906 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Suh N, et al. Arzoxifene, a new selective estrogen receptor modulator for chemoprevention of experimental breast cancer. Cancer Res. 2001 Dec 1;61(23):8412-5.

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