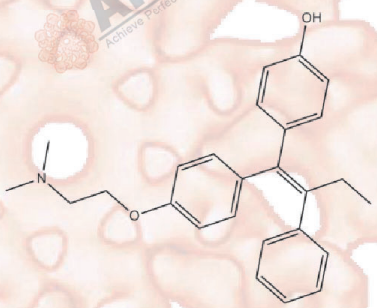
Product Data Sheet

(Z)-4-Hydroxytamoxifen

Cat. No.: B5421
CAS No.: 68047-06-3
Formula: C26H29NO2
M.Wt: 387.51
Synonyms:
Target: Endocrinology and Hormones
Pathway: Estrogen/progestogen Receptor
Storage: Store at -20°C



Solvent & Solubility

In Vitro

≥38.8 mg/mL in DMSO; insoluble in H2O; ≥19.63 mg/mL in EtOH

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	2.5806 mL	12.9029 mL	25.8058 mL
5 mM	0.5161 mL	2.5806 mL	5.1612 mL
10 mM	0.2581 mL	1.2903 mL	2.5806 mL

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

Biological Activity

Shortsummary	ER modulator, potent and selective
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Immature rat pituitary gland cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while.
Reacting conditions:	1-100 nM, 6 days

	Applications:	(Z)-4-Hydroxytamoxifen inhibited estradiol-stimulated PRL synthesis, which was more potent than tamoxifen.
In Vivo	**Animal experiment**	
	Animal models:	Immature rats
	Dosage form:	Oral administration, 5 μg/day
	Applications:	In immature rats which received s.c. injections of 0-2 μg estradiol, (Z)-4-hydroxytamoxifen produced a dose-related decrease in uterine wet weight when compared with the estradiol-treated controls. (Z)-4-hydroxytamoxifen (5μg/day) showed antiuterotrophic effects.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. JORDAN V C, KOCH R, LANGAN S, et al. Ligand interaction at the estrogen receptor to program antiestrogen action: a study with nonsteroidal compounds in vitro[J]. Endocrinology, 1988, 122(4): 1449-1454.

[2]. Jordan V C, COLLINS M M, ROWSBY L, et al. A monohydroxylated metabolite of tamoxifen with potent antioestrogenic activity[J]. Journal of Endocrinology, 1977, 75(2): 305-316.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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