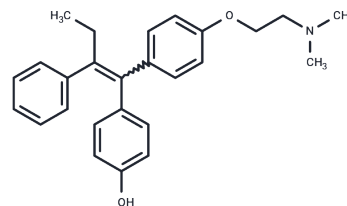


(E/Z)-4-Hydroxytamoxifen

Chemical Properties

CAS No. :	68392-35-8
Formula:	C ₂₆ H ₂₉ NO ₂
Molecular Weight:	387.51
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	(E/Z)-4-Hydroxytamoxifen (Afimoxifene) is the active metabolite of tamoxifen and a selective estrogen receptor (ER) modulator that is widely used in the therapeutic and chemopreventive treatment of breast cancer.
Targets(IC50)	Estrogen Receptor/ERR,Estrogen/progestogen Receptor
In vitro	4-OHT is a potent activator of ER and has been shown to have a higher affinity for estrogen receptors compared to tamoxifen. It has significant dose and time-dependent direct effects to alter the contractile function of isolated adult rat cardiac myocytes. 4-HT activates on-target modification frequency for intein-Cas9 variants
Cell Research	Cell lines: Adult Rat and Mouse Cardiac MyocytesConcentrations: 0, 0.5, 1, 3, 5, and 10 μ MIncubation Time: 15-45 minMethod:For sarcomere length measurements, cells are covered in Tyrode's containing 4OHT, allowed to reach $36 \pm 1^\circ\text{C}$, and then stimulated at 0.2 Hz.
Animal Research	Animal Models: Sprague-Dawley ratsFormulation: dissolved in 200 μ l tricaprylinDosages: 21 mg/kg, 54 μ mol/kgAdministration: oral administration

Solubility Information

Solubility	DMSO: 71 mg/mL (183.2 mM), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), < 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	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
50 mM	0.0516 mL	0.2581 mL	0.5161 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.

Reference

Asp ML, et al. PLoS One. 2013, 8(10):e78768.

Wang D, Yin Z, Wang H, et al. The super elongation complex drives transcriptional addiction in MYCN-amplified

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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