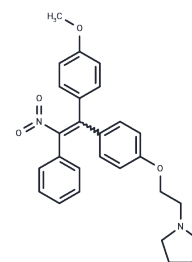


## Nitromifene

## Chemical Properties

CAS No. :	10448-84-7
Formula:	C <sub>27</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	444.52
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	Nitromifene is the estrogen receptor antagonist.
Targets(IC50)	Estrogen Receptor/ERR,Others
In vitro	Nitromifene is an effective antagonist of the ability of calmodulin (CM) to activate cyclic nucleotide phosphodiesterase. Nitromifene inhibits MCF 7 cell proliferation to 70% of that in drug-free controls, at 0.5 μM and 1.0 μM concentrations. Nitromifene is clearly more effective than other metabolites, at higher concentrations. Specifically, bound estradiol is displaced from intact MCF 7 cells by Nitromifene .

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2496 mL	11.2481 mL	22.4962 mL
5 mM	0.4499 mL	2.2496 mL	4.4992 mL
10 mM	0.225 mL	1.1248 mL	2.2496 mL
50 mM	0.045 mL	0.225 mL	0.4499 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

Ruenitz PC, et al. Characterization of MCF 7 breast cancer cell growth inhibition by the antiestrogen nitromifene (CI 628) and selected metabolites. J Steroid Biochem. 1989 Sep;33(3):365-9.

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