



Catalog # 10-1256

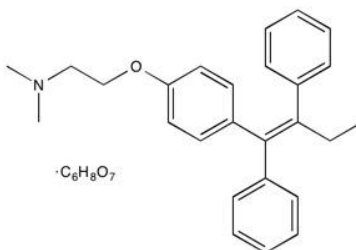
Tamoxifen citrate

CAS# 54965-21-1

ICI-46474

(2)-2-[4-(1,2-Diphenyl-1-butenyl)phenoxy]-N,N-dimethylethanamine citrate

Lot # X101514



Estrogen receptor antagonist/partial agonist. Induces oxidative stress and apoptosis in estrogen receptor-negative cancer cell lines¹. Displays neuroprotective effects in permanent focal ischemia². Inhibits PKC³. Potent agonist at GPR30 (membrane estrogen receptor)⁴. Clinically useful breast cancer agent⁵.

- 1) Ferlini *et al.* (1999), *Tamoxifen induces oxidative stress and apoptosis in oestrogen receptor-negative human cancer cell lines*; Br. J. Cancer, **79** 257
- 2) Kimelberg *et al.* (2003), *Neuroprotective activity of tamoxifen in permanent focal ischemia*; J. Neurosurg., **99** 138
- 3) Couldwell *et al.* (1994), *Protein kinase C inhibitors induce apoptosis in human malignant glioma cell lines* FEBS Lett., **345** 43
- 4) Thomas *et al.* (2005), *Identity of an estrogen membrane receptor coupled to a G protein in human breast cancer cells*; Endocrinology, **146** 624
- 5) Jordan *et al.* (2006), *Tamoxifen (ICI46,474) as a targeted therapy to treat and prevent breast cancer*; Br. J. Pharmacol., **147** S269

PHYSICAL DATA

Molecular Weight:	563.65
Molecular Formula:	$C_{26}H_{29}NO \cdot C_6H_8O_7$
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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