

Toremifene (Citrate)

Catalog No: tcsc1272



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

89778-27-8

Formula:

$C_{32}H_{36}ClNO_8$

Pathway:

Others

Target:

Estrogen Receptor/ERR

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

FC 1157a;NK 622

Observed Molecular Weight:

598.08

Product Description

Toremifene Citrate(NK 622; FC 1157a) is a second-generation selective estrogen-receptor modulator (SERM) in development for the prevention of osteoporosis.

IC50 Value: $1 \pm 0.3 \mu\text{M}$

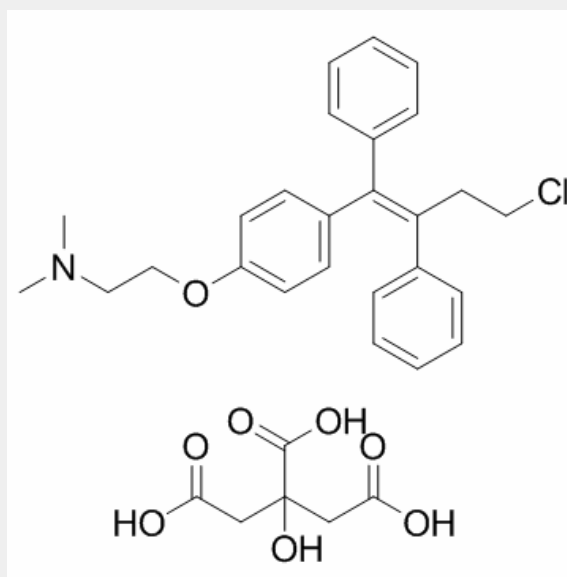
Target: Estrogen receptor

Toremifene is a second-generation selective estrogen-receptor modulator (SERM) in development for the prevention of osteoporosis and other adverse effects resulting from ADT in men with prostate cancer [1].

in vitro: The growth of Ac-1 cells was inhibited by tamoxifen, toremifene and atamestane in vitro with IC50 values of $1.8 \pm 1.3 \mu\text{M}$, $1 \pm 0.3 \mu\text{M}$ and $60.4 \pm 17.2 \mu\text{M}$, respectively. The combination of toremifene plus atamestane was found to be better than toremifene or atamestane alone in vitro [2].

in vivo: The effect of this combination was then studied in vivo using Ac-1 xenografts grown in ovariectomized female SCID mice. The mice were injected with toremifene ($1000 \mu\text{g}/\text{day}$), atamestane ($1000 \mu\text{g}/\text{day}$), tamoxifen ($100 \mu\text{g}/\text{day}$), or the combination of toremifene plus atamestane. In this study, our results indicate that the combination of toremifene plus atamestane was as effective as toremifene or tamoxifen alone but may not provide any additional benefit over toremifene alone or tamoxifen alone [2].

Clinical trial: Prostate cancer diagnosis among men with isolated high-grade intraepithelial neoplasia enrolled onto a 3-year prospective phase III clinical trial of oral toremifene [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!