Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Tamoxifen

Catalog No: tcsc2870

Available Sizes

Size: 500mg

Size: 1g

Size: 5g

Specifications

CAS No:
10540-29-1

Formula:
$C_{26}H_{29}NO$

Pathway:
Others;Autophagy

Target:
Estrogen Receptor/ERR;Autophagy

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 30 mg/mL (80.75 mM)

Alternative Names:
ICI47699;Z-Tamoxifen;trans-Tamoxifen

Observed Molecular Weight:
371.51

Product Description

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Tamoxifen is an antiestrogen by inhibiting the binding of estrogen to **estrogen receptors**.

IC50 & Target: Estrogen receptor[1]

In Vitro: Tamoxifen shows strong inhibition of MCF-7 cells (EC_{50}=1.41 μM) and to a lesser extent the T47D cells (EC_{50}=2.5 μM) but does not affect the MDA-MB-231 cells[2].

In Vivo: The Tamoxifen-inducible gene knockout strategy has clear advantages in that expression of a gene can be ablated in adult mice at will in a tissue specific manner. To study the role of Med1 in adult heart, 7-week old TmcsMed1$^{-/-}$ mice are given a daily Iintraperitoneal injection of Tamoxifen at a dose of 65 mg/kg for 5 days and killed at selected intervals thereafter. qPCR analysis of RNA shows that the Med1 expression begin to decrease after 3 days of Tamoxifen injection (about 70% decrease), and by 5 days of injection, Med1 expression is almost non-detectable in the heart. Tamoxifen-inducible cardiac-specific disruption of Med1 (TmcsMed1$^{-/-}$) in adult mice causes dilated cardiomyopathy[3].