Web: www.taiclone.com
Tel: +886-2-2735-9682
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Mifepristone

Catalog No: tcsc1435

Available Sizes

Size: 100mg

Size: 500mg

Specifications

CAS No:
84371-65-3

Formula:
$C_{29}H_{35}NO_2$

Pathway:
Others;GPCR/G Protein;Autophagy

Target:
Progesterone Receptor;Glucocorticoid Receptor;Autophagy

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 59 mg/mL (137.34 mM)

Alternative Names:
RU486;RU 38486

Observed Molecular Weight:
429.59

Product Description

Mifepristone is a **progesterone receptor** (**PR**) antagonist (**IC_{50}**=0.2 nM) in a T47D cell-based assay, also is a **glucocorticoid receptor** (**GR**) antagonist (**IC_{50}**

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=2.6 nM) in an A549 cell-based assay.

IC50 & Target: IC50: 0.2 nM (progesterone receptor, in T47D cells), 2.6 nM (glucocorticoid receptor, in A549 cells)[1]

In Vitro: The discovery of the first competitive progesterone antagonist, Mifepristone, has stimulated an intense search for more potent and more selective antiprogestins[1]. Cell growth is evaluated after 4 days of exposure to Mifepristone at 10 μM, a concentration close to the plasma concentration achievable in humans. The antiproliferative effect of Cisplatin is potentiated when administered in combination with Mifepristone in HeLa cells. The IC_{50} of Cisplatin in combination with Mifepristone is lower (14.2 μM) than that of Cisplatin alone (34.2 μM) in HeLa cells with an approximately 2.5-fold difference. After treatment with Mifepristone, the accumulation of intracellular Cisplatin in HeLa cells is 2-fold greater, representing a significant difference (p=0.009), compare with Cisplatin alone from 0.79 to 1.52 μg/mg of protein[2].

In Vivo: The cervix tumor xenograft models are treated with Cisplatin alone, there is a tumor growth inhibition compare with control group. However, the tumor weight loss is even more significant (p[2]. Adult male Sprague-Dawley rats are subjected to a 4-day binge-like EtOH administration regimen (3 to 5 g/kg/i.g. every 8 hours designed to produce peak blood EtOH levels (BELs) of [3].