

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

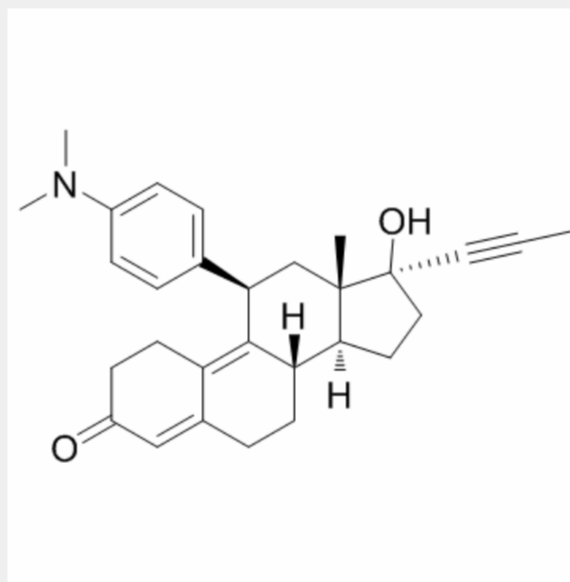
Mifepristone is a **progesterone receptor (PR)** antagonist (IC_{50} =0.2 nM) in a T47D cell-based assay, also is a **glucocorticoid receptor (GR)** antagonist (IC_{50}

=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 μ M, 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 IC₅₀ of Cisplatin in combination with Mifepristone is lower (14.2 μ M) than that of Cisplatin alone (34.2 μ M) 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 μ g/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].



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