

# 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 :  $\geq 59$  mg/mL (137.34 mM)

**Alternative Names:**

RU486;RU 38486

**Observed Molecular Weight:**

429.59

## Product Description

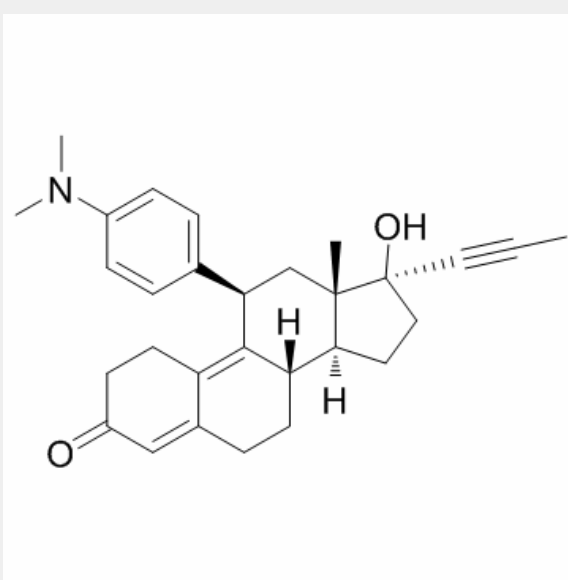
Mifepristone is a **progesterone receptor (PR)** antagonist ( $IC_{50}$ =0.2 nM) in a T47D cell-based assay, also is a **glucocorticoid receptor (GR)** antagonist ( $IC_{50}$

=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)<sup>[1]</sup>

**In Vitro:** The discovery of the first competitive progesterone antagonist, Mifepristone, has stimulated an intense search for more potent and more selective antiprogestins<sup>[1]</sup>. Cell growth is evaluated after 4 days of exposure to Mifepristone at 10  $\mu$ 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 IC<sub>50</sub> of Cisplatin in combination with Mifepristone is lower (14.2  $\mu$ M) than that of Cisplatin alone (34.2  $\mu$ 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  $\mu$ g/mg of protein<sup>[2]</sup>.

**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].



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