**Overview**

**Product name**
Mifepristone (RU486), Progesterone and Glucocorticoid receptor antagonist

**Description**
PR and GR antagonist

**Biological description**
A cell-permeable synthetic steroid that acts as a potent selective antagonist of progesterone (PR) and glucocorticoid (GR) receptors in vitro and in vivo. Acts as a silent antagonist at PR and has a higher affinity than progesterone.

**Purity**
> 99%

**CAS Number**
84371-65-3

**Chemical structure**
![Chemical structure](image)

**Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name</td>
<td>(11β,17β)-11-[4-(Dimethylamino)phenyl]-17-hydroxy-17-(1-propynyl)-estra-4,9-dien-3-one</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>429.60</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C_{29}H_{35}NO_{2}</td>
</tr>
<tr>
<td>PubChem identifier</td>
<td>55245</td>
</tr>
<tr>
<td>Storage instructions</td>
<td>Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.</td>
</tr>
<tr>
<td>Solubility overview</td>
<td>Soluble in DMSO to 100 mM and in ethanol to 50 mM</td>
</tr>
<tr>
<td>Handling</td>
<td>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</td>
</tr>
</tbody>
</table>

**SMILES**
CN(C)c1ccc(cc1)[C@H]4[C@@]2(C)[C@H]3(CC[C@@]2(O)C#CC)
[C@@H]5CCC3=CC(=O)CCC3=C45

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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