# Ondansetron hydrochloride, 5-HT₃ receptor antagonist

**Product name**  
Ondansetron hydrochloride, 5-HT₃ receptor antagonist

**Description**  
Potent, selective 5-HT₃ receptor antagonist

**Biological description**  
Potent, selective 5-HT₃ receptor antagonist (Kᵢ = 6.16 nM). Potent antiemetic *in vivo*.

**Purity**  
> 99%

**CAS Number**  
99614-01-4

**Chemical structure**

![Chemical Structure](image)

### Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemical name</strong></td>
<td>1,2,3,9-Tetrahydro-9-methyl-3-[(2-methyl-1H-imidazol-1-yl)methyl-4H-carbazol-4-one hydrochloride</td>
</tr>
<tr>
<td><strong>Molecular weight</strong></td>
<td>329.83</td>
</tr>
<tr>
<td><strong>Molecular formula</strong></td>
<td>C₁₈H₁₉N₃O.HCl</td>
</tr>
<tr>
<td><strong>PubChem identifier</strong></td>
<td>59774</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.</td>
</tr>
<tr>
<td><strong>Solubility overview</strong></td>
<td>Soluble in water to 10 mM, in ethanol to 25 mM and in DMSO to 100 mM.</td>
</tr>
<tr>
<td><strong>Handling</strong></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. Toxic, refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</td>
</tr>
<tr>
<td><strong>SMILES</strong></td>
<td>ClO=C1C(CCc3c1c2ccc2n3C)Cn4ccnc4C</td>
</tr>
</tbody>
</table>
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