Product Name: Atipamezole
Catalog Number: T6766
CAS Number: 104054-27-5
Molecular Formula: C14H16N2
Molecular Weight: 212.29

Description: Atipamezole is a synthetic α2 adrenergic receptor antagonist. It has also been researched in humans as a potential anti-Parkinsonian drug.

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

<table>
<thead>
<tr>
<th>Solubility</th>
<th>DMSO</th>
<th>39 mg/mL (183.7 mM)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Ethanol</td>
<td>39 mg/mL (183.7 mM)</td>
</tr>
<tr>
<td></td>
<td>Water</td>
<td>&lt;1 mg/mL</td>
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<td>(&lt; 1 mg/ml refers to the product slightly soluble or insoluble)</td>
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Receptor (IC50):
- α2-adrenoceptor
- Ki: 1.6nM
- α2-adrenoceptor antagonist

In vitro Activity
The affinity of atipamezole for α2-adrenoceptors and its α2/α1 selectivity ratio are considerably higher than yohimbine. Atipamezole is not selective for subtypes of α2-adrenoceptors. It has negligible affinity for 5-HT1, 5-HT2 and I2 bindings sites[1].

In vivo Activity
Atipamezole is well tolerated in rodents. In anesthetized, normotensive rats, the cardiovascular effects of atipamezole (0.01–1 mg/kg, i.v.) are rather modest. Atipamezole is commonly used by veterinarians to awaken animals from sedation or anesthesia. Atipamezole increases sexual activity in rats and monkeys. In animals with sustained nociception, atipamezole increases pain-related responses by blocking the noradrenergic feedback inhibition of pain. Atipamezole at low doses has beneficial effects on alertness, selective attention, planning, learning, and recall in experimental animals, but not necessarily on short-term working memory[1].

Animal Experiment
Animal Model: Wistar rats

Reference

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