# Avosentan

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>HY-15195</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>290815-26-8</td>
</tr>
<tr>
<td>Molecular Formula:</td>
<td>C₂₃H₂₁N₅O₅S</td>
</tr>
<tr>
<td>Molecular Weight:</td>
<td>479.51</td>
</tr>
<tr>
<td>Target:</td>
<td>Endothelin Receptor</td>
</tr>
<tr>
<td>Pathway:</td>
<td>GPCR/G Protein</td>
</tr>
<tr>
<td>Storage:</td>
<td>Powder -20°C 3 years</td>
</tr>
<tr>
<td></td>
<td>4°C 2 years</td>
</tr>
<tr>
<td></td>
<td>In solvent -80°C 6 months</td>
</tr>
<tr>
<td></td>
<td>-20°C 1 month</td>
</tr>
</tbody>
</table>

## SOLVENT & SOLUBILITY

### In Vitro

DMSO: 6.67 mg/mL (13.91 mM; Need ultrasonic)
H₂O: < 0.1 mg/mL (insoluble)

### Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>1 mg</td>
<td>2.0855 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>10 mg</td>
<td>20.8546 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>5 mg</td>
<td>10.4273 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0855 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

### In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 0.67 mg/mL (1.40 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.67 mg/mL (1.40 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

Avosentan (Ro 67-0565; SPP-301) is a potent, selective endothelin receptor (ETA receptor) antagonist. IC₅₀ value:

### REFERENCES


[5]. Effect of SPP 301, an Endothelin Antagonist, on Intraocular Pressure in Glaucomatous Monkey Eyes By Wang, Rong-Fang; Podos, Steven M.; Serle, Janet B.; Baltatu, Ovidiu C. From Current Eye Research (2011), 36(1), 41-46.

Caution: Product has not been fully validated for medical applications. For research use only.
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