Argipressin

Cat. No.: HY-P0049
CAS No.: 113-79-1
Molecular Formula: C₄₆H₆₅N₁₅O₁₂S₂
Molecular Weight: 1084.23
Sequence: Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH₂ (Disulfide bridge: Cys1-Cys6)
Sequence Shortening: CYFQNCPRG-NH₂ (Disulfide bridge: Cys1-Cys6)
Target: Others
Pathway: Others
Storage: Powder
-80°C: 2 years
-20°C: 1 year
In solvent
-80°C: 6 months
-20°C: 1 month

**SOLVENT & SOLUBILITY**

In Vitro

<table>
<thead>
<tr>
<th>Solvent</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂O : ≥</td>
<td>360 mg/mL (332.03 mM)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mass (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>0.9223 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.1845 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.0922 mL</td>
</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

Description

Argipressin binds to the V1-vascular arginine vasopressin receptor, with a Kₐ value of 1.31 nM in A7r5 rat aortic smooth muscle cells.

In Vitro

Argipressin binds to the vascular arginine vasopressin receptor, V1, with a Kₐ value of 1.31 nM in A7r5 rat aortic smooth muscle cells. It also stimulates the intracellular release of calcium in A7r5 cells (EC₅₀=5 nM)[1]. AVP-induced [Ca²⁺]; signals and immunized activity against S-100 in DRG cell culture. The minimum effective concentrations of Argipressin causing [Ca²⁺]; responses are 100 pM in non-neuronal cells in DRG culture[2].

**REFERENCES**