Sodium ionophore III

Cat. No.: HY-101109  
CAS No.: 81686-22-8  
Molecular Formula: C₃₄H₅₂N₂O₄  
Molecular Weight: 552.79  
Target: Sodium Channel  
Pathway: Membrane Transporter/Ion Channel  
Storage:  
-20°C: 3 years  
4°C: 2 years  
-80°C: 6 months  
-20°C: 1 month

SOLVENT & SOLUBILITY

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>DMSO</td>
<td>1.8090 mL</td>
<td>9.0450 mL</td>
<td>18.0901 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>DMSO</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>10 mM</td>
<td>DMSO</td>
<td>---</td>
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</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description  
Sodium ionophore III (ETH2120) is a Na⁺ ionophore suitable for the assay of sodium activity in blood, plasma, serum, etc.

In Vitro

Preincubation of the cells with the Na⁺ ionophore sodium ionophore III not only stimulated caffeate reduction, but completely abolished ATP synthesis. Addition of sodium ionophore III to cells in the steady state of caffeate reduction immediately dissipated the intracellular ATP level[1]. Lactate-sulfate grown cells are insensitive to the Na⁺ ionophore, ETH2120[2]. Sodium ionophore III ligand is a very effective receptor for the Eu³⁺ and Am³⁺ cations and can be considered as a potential extraction agent for nuclear isotope treatment[3].

REFERENCES

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