**MRS1845**

**Cat. No.:** HY-103310  
**CAS No.:** 544478-19-5  
**Molecular Formula:** $\text{C}_{21}\text{H}_{22}\text{N}_{2}\text{O}_{6}$  
**Molecular Weight:** 398.41  
**Target:** Calcium Channel  
**Pathway:** Membrane Transporter/Ion Channel  
**Storage:** Please store the product under the recommended conditions in the COA.

### SOLVENT & SOLUBILITY

**In Vitro**

- **DMSO:** $\geq 125$ mg/mL (313.75 mM)  
- **H$_2$O:** $< 0.1$ mg/mL (insoluble)

*"$\geq$" means soluble, but saturation unknown.*

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 mM</td>
<td>5 mM</td>
<td>10 mM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2.510 mL</td>
<td>12.549 mL</td>
<td>25.099 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.502 mL</td>
<td>2.510 mL</td>
<td>5.020 mL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.251 mL</td>
<td>1.255 mL</td>
<td>2.510 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: $\geq 2.08$ mg/mL (5.22 mM); Clear solution
2. Add each solvent one by one: 10% DMSO $>>$ 90% corn oil  
Solubility: $\geq 2.08$ mg/mL (5.22 mM); Clear solution

### BIOLOGICAL ACTIVITY

**Description**  
MRS1845 is a Ca$^{2+}$ channel blocker with relative specificity for store-operated calcium entry (SOCE) channels$^{[1]}$.

**IC$_{50}$ & Target**  
Ca$^{2+}$ channel$^{[1]}$

### REFERENCES

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

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