AfCS Ligand Protocol

Reagent name: Terbutaline hemisulfate, 10 mM
Reagent name abbreviation: TER, 10 mM
Protocol ID: PL00000002
Version: 01
Volume: 4 ml

Components:

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Source</th>
<th>Catalog or Protocol No.</th>
<th>F.W. or Stock Conc.</th>
<th>Quantity</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terbutaline hemisulfate</td>
<td>Sigma-Aldrich</td>
<td>T2528</td>
<td>274.3</td>
<td>11 mg</td>
<td>10 mM</td>
</tr>
</tbody>
</table>

Ligand stock preparation:
1. Weigh 11 mg of terbutaline hemisulfate.
2. Dissolve terbutaline hemisulfate in 4 ml of purified water in a 15-ml conical tube at room temperature.
3. Prepare barcode and label 1.5-ml Eppendorf tubes.
4. Divide 40-µl aliquots into the barcoded 1.5-ml Eppendorf tubes.
5. Store the ligand stock at –20 °C.

Storage:
- Temperature: –20 °C
- Location: __________________
- Aliquot size: 40 µl
- Special instructions: None

Dilution for treatment of cells at 10 µM:*
1. Dilute the ligand no earlier than 1 hr before use.
2. Thaw the ligand stock on ice.
3. Dilute 15 µl of ligand stock in 1485 µl of Supplemented Iscove’s Modified Dulbecco’s Medium (SIMDM) in a 1.5-ml Eppendorf tube on ice. The final concentration before stimulation is 0.1 mM.
4. Keep the diluted ligand on ice until ready to use. Warm the ligand solution to 37 °C in an environmental chamber immediately before use.

Author: Zhen Yan
Date: 04/09/02
Approved: Paul Sternweis

*Comments: For use in calcium assays, dilute the ligand in Hanks’ Balanced Salt Solution—Bovine Serum Albumin (HBSS-BSA), following the same procedure.