**Salmeterol**

Cat. No.: HY-14302  
CAS No.: 89365-50-4  
Molecular Formula: $C_{25}H_{37}NO_4$  
Molecular Weight: 415.57  
Target: Adrenergic Receptor  
Pathway: GPCR/G Protein  
Storage:  
- Powder: -20°C 3 years, 4°C 2 years, In solvent: -80°C 6 months, -20°C 1 month

**Solvent & Solubility**

In Vitro 10 mM in DMSO

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>1 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.4063 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4813 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2406 mL</td>
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</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

**Description**  
Salmeterol is a long-acting beta2-adrenergic receptor (beta 2AR) agonist used clinically to treat asthma. Target: beta2-Adrenergic Receptor  
Salmeterol is a long-acting beta2-adrenergic receptor agonist drug that is prescribed for the treatment of asthma and chronic obstructive pulmonary disease (COPD). Salmeterol also binds with very high affinity at a second site, termed the "exosite", and that this exosite contributes to the long duration of action of salmeterol [1].

**REFERENCES**


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