**Product datasheet**

**SR 33805 oxalate ab141868**

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>SR 33805 oxalate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Potent Ca(^2+) channel blocker</td>
</tr>
<tr>
<td>Biological description</td>
<td>Potent Ca(^2+) channel blocker. Highly selective for smooth muscle (IC(_{50}) values are 26 nM and 24 pM for neuronal and myocyte channels respectively). Selectively binds to the α(_1)-subunit of L-type Ca(^2+) channels. Lacks any potent negative inotropic actions. Shows cardiotonic effects in vivo.</td>
</tr>
<tr>
<td>Purity</td>
<td>&gt; 96%</td>
</tr>
</tbody>
</table>

**Properties**

| Chemical name | \(N\)-[2-(3,4-Dimethoxyphenyl)ethyl]-\(N\)-methyl-3-[4-(1-methyl-3-propan-2-ylindol-2-yl)sulfonylphenoxy]propan-1-amine oxalate |
| Molecular weight | 654.77         |
| Chemical structure | ![Chemical structure](image) |

| Molecular formula | \(C_{32}H_{40}N_{2}O_{5}S\cdot C_{2}H_{2}O_{4}\) |
| CAS Number       | 121346-32-5       |
| PubChem identifier | 21256218          |

**Storage instructions**

Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**

Soluble in DMSO to 100 mM

**Handling**

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions (FAQ) page](#) for more details.

**SMILES**

CC(C)C=NC(N=C2=CC=CC=C21)C(S(=O))
SR 33805 oxalate blocks L-type Ca2+ currents in Xenopus oocytes.

A. Time course of L-type channel (CaV1.2+a2d1+β1a) activity before and during applications of 1 µM SR 33805 oxalate (ab141868) as indicated, and upon wash. Holding potential was -80 mV and currents were elicited every 10 seconds by 100 ms ramp to +60 mV. B. Superimposed current traces of L-type currents before and during applications of 1 µM SR 33805 oxalate, taken from the experiment in A.

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