Product Name: MS 245 oxalate
Catalog No.: 4208
Batch No.: 1
CAS Number: 275363-58-1
IUPAC Name: 5-Methoxy-N,N-dimethyl-1-(phenylsulfonyl)-1H-indole-3-ethanamine oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{19}\text{H}_{22}\text{N}_{2}\text{O}_{3}\text{S}\cdot\text{C}_{2}\text{H}_{2}\text{O}_{4} \)
Batch Molecular Weight: 448.49
Physical Appearance: Off-white solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.4 \) (Chloroform:Methanol [9:1])
HPLC: Shows 99.5% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>56.24</td>
<td>56.18</td>
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<tr>
<td>Hydrogen</td>
<td>5.39</td>
<td>5.35</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.25</td>
<td>6.17</td>
</tr>
</tbody>
</table>
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Description: 
High affinity 5-HT$_6$ antagonist (K$_i$ = 2.1 nM). Potentiates the hypolocomotor actions of (-)-nicotine in mice.

Physical and Chemical Properties:  
Batch Molecular Formula: C$_{19}$H$_{20}$N$_2$O$_3$S.C$_2$H$_2$O$_4$  
Batch Molecular Weight: 448.49  
Physical Appearance: Off-white solid  
Minimum Purity: >99%

Storage: Store at +4°C  
Solubility & Usage Info:  
DMSO to 50 mM

Stability and Solubility Advice:  
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath). Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:  
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.  
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:  