Product Name: Clozapine N-oxide dihydrochloride
Catalog No.: 6329  
Batch No.: 3
CAS Number: 2250025-93-3
IUPAC Name: 8-Chloro-11-(4-methyl-4-oxido-1-piperazinyl)-5H-dibenzo[b,e][1,4]diazepine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{18}H_{19}ClN_{4}O.2HCl.2H_{2}O
Batch Molecular Weight: 451.77
Physical Appearance: Orange solid
Solubility:  
- water to 100 mM
- DMSO to 100 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
\textsuperscript{1}H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:  

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
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<tr>
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<td>Nitrogen</td>
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<td>12.37</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:
Water soluble salt of Clozapine N-oxide (Cat.No.4936). Activator of muscarinic DREADDs. Exhibits improved bioavailability (6 - 7-fold higher plasma concentration) compared with CNO, with less conversion to clozapine in animal studies.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{18}$H$_{16}$ClN$_4$O$_2$HCl.2H$_2$O
Batch Molecular Weight: 451.77
Physical Appearance: Orange solid
Minimum Purity: >99%

Storage: Desiccate at RT

Solubility & Usage Info:
- water to 100 mM
- DMSO to 100 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: