Product Name: Clozapine N-oxide
Catalog No.: 4936  Batch No.: 14
CAS Number: 34233-69-7
IUPAC Name: 8-Chloro-11-(4-methyl-4-oxido-1-piperazinyl)-5H-dibenzo[b,e][1,4]diazepine

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: $\text{C}_{18}\text{H}_{19}\text{ClN}_4\text{O} \cdot 2\text{H}_2\text{O}$
   Batch Molecular Weight: 378.85
   Physical Appearance: Yellow solid
   Solubility: DMSO to 20 mM
   ethanol to 10 mM with gentle warming
   Storage: Store at RT

2. ANALYTICAL DATA

   TLC: $R_f = 0.5$ (Dichloromethane:Methanol [9:1])
   HPLC: Shows 99.9% purity
   $^1$H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   Carbon Hydrogen Nitrogen
   Theoretical 57.07 6.12 14.79
   Found 57.17 6.14.8

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

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Description:
Metabolite of clozapine (Cat. No. 0444). Activates human muscarinic designer receptors (DREADDs) in vitro. Silences hippocampal neurons expressing hM₄ DREADDs in vitro. Activates Gₛ-linked DREADDS- AgRP in mice via intracerebroventricular (i.c.v) injection. Shown to be a P-glycoprotein (P-gp) efflux pump substrate. Other potent and selective hM₃Dq DREADD agonists available: DREADD agonist 21 and Perlapine. Water soluble salt also available. This product contains 1 molar equivalent of ethanol. Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₆H₁₉ClN₄O.H₂O
Batch Molecular Weight: 378.85
Physical Appearance: Yellow solid

Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
DMSO to 20 mM
ethanol to 10 mM with gentle warming

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: