Product Name: 2-CMDO  
CAS Number: 24140-98-5  
IUPAC Name: 2-Chloro-11-(4-methylpiperazino)dibenz(Z)\{b,f\}oxepin maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{19}\text{H}_{19}\text{ClN}_{2}\text{O.C}_{4}\text{H}_{4}\text{O}_{4} \)
Batch Molecular Weight: 442.9
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.68 \) (Dichloromethane:Methanol [98:2])
Melting Point: Between 186 - 189°C
\(^1\text{H NMR}: \) Consistent with structure
Product Name: 2-CMDO  
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IUPAC Name: 2-Chloro-11-(4-methylpiperazino)dibenzo(Z[b,f])oxepin maleate

**Description:** Dopamine D<sub>2</sub>-like receptor antagonist that displays some selectivity for D<sub>4</sub> receptors (K<sub>i</sub> values are 0.54 and 2.5 nM for D<sub>4</sub> and D<sub>2</sub> receptors respectively).

**Physical and Chemical Properties:**
- Batch Molecular Formula: C<sub>19</sub>H<sub>18</sub>ClN<sub>2</sub>O,C<sub>4</sub>H<sub>8</sub>O<sub>4</sub>
- Batch Molecular Weight: 442.9
- Physical Appearance: White crystalline solid

**Storage:** Store at RT

**Solubility & Usage Info:**
- 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:**