1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{21}\text{FN}_{2}\text{O. HBr} \)
Batch Molecular Weight: 405.31
Physical Appearance: White solid
Solubility:
- ethanol to 50 mM
- water to 10 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.37 \) (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])
Melting Point: Between 189 - 192°C
HPLC: Shows 100% purity
\(^1\text{H} \text{NMR:}\) Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>59.26</td>
<td>59.22</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.47</td>
<td>5.46</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.91</td>
<td>6.97</td>
</tr>
</tbody>
</table>
Product Information

Product Name: Citalopram hydrobromide
Catalog No.: 1427
Batch No.: 1
CAS Number: 59729-32-7
EC Number: 261-891-1
IUPAC Name: 1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofurancarbonitrile hydrobromide

Description:
Highly selective and potent 5-HT uptake inhibitor with no effect on noradrenalin or dopamine uptake (IC₅₀ values are 1.8, 6800 and 41000 nM respectively). Has negligible activity at a wide range of receptors. Deuterated analog also available.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₀H₂₁FN₂O.HBr
Batch Molecular Weight: 405.31
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
ethanol to 50 mM
water to 10 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:

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956