1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{27}H_{27}NO_4\cdot C_4H_4O_4 \cdot 1\frac{3}{4}H_2O\)

Batch Molecular Weight: 577.11

Physical Appearance: Yellow solid

Solubility:
- DMSO to 100 mM
- Water to 10 mM with gentle warming

Storage: Desiccate at -20°C

2. ANALYTICAL DATA

TLC: \(R_f = 0.3\) (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows >99.4% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>64.52</td>
<td>6.03</td>
<td>2.43</td>
</tr>
<tr>
<td>Found</td>
<td>64.7</td>
<td>5.8</td>
<td>2.63</td>
</tr>
</tbody>
</table>
Product Name: BNTX maleate
CAS Number: 864461-31-4
IUPAC Name: 7-Benzylidenenaltrexone maleate

Description:
Standard selective δ₁ opioid receptor antagonist. Also inhibits neurogenic ion transport mediated by a putative novel opioid receptor in porcine ileal mucosa.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₇H₂₇NO₄.C₄H₄O₄.1¾H₂O
Batch Molecular Weight: 577.11
Physical Appearance: Yellow solid
Minimum Purity: >99%

Storage: Desiccate at -20°C

Solubility & Usage Info:
DMSO to 100 mM
water 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: