Product Name: Tianeptine sodium salt
Catalog No.: 1972
Batch No.: 2
EC Number: 250-059-3
CAS Number: 30123-17-2
IUPAC Name: 7-[(3-Chloro-6,11-dihydro-6-methyl-5,5-dioxidodibenzo[c,f][1,2]thiazepin-11-yl)amino]heptanoic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{21}H_{24}ClN_2NaO_4S.H_2O \)
Batch Molecular Weight: 476.95
Physical Appearance: White solid
Solubility:
- water to 100 mM
- DMSO to 10 mM
- ethanol to 10 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

HPLC: Shows 100% 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>
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<tr>
<td>Theoretical</td>
<td>52.88</td>
<td>5.49</td>
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<tr>
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<td>52.76</td>
<td>5.33</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Selective facilitator of 5-HT uptake in vitro and in vivo. Has no affinity for a wide range of receptors, including 5-HT and dopamine (IC$_{50}$ > 10 μM) and has no effect on noradrenalin or dopamine uptake. Antidepressant, analgesic and neuroprotective following systemic administration in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{21}H_{24}ClN_{2}NaO_{4}S.H_2O$
Batch Molecular Weight: 476.95
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate at RT
Solubility & Usage Info:
- Water to 100 mM
- DMSO to 10 mM
- Ethanol 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: