1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{27}\text{H}_{38}\text{N}_{6}\text{O}_{2}$
Batch Molecular Weight: 478.64
Physical Appearance: Pale yellow solid
Solubility: DMSO to 50 mM, ethanol to 10 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: $R_f = 0.17$ (Dichloromethane:Methanol:Ammonia soln. [9:1:0.05])
HPLC: Shows 99.5% purity
$^1\text{H}$ NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
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<tbody>
<tr>
<td>C</td>
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<tr>
<td>H</td>
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<tr>
<td>N</td>
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<td>17.62</td>
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Product Name: AF-DX 384
Catalog No.: 1345
Batch No.: 4

CAS Number: 118290-26-9
IUPAC Name: N-[2-[2-[(Dipropylamino)methyl]-1-piperidinyl]ethyl]-5,6-dihydro-6-oxo-11H-pyrido[2,3-b][1,4]benzodiazipine-11-carboxamide

Description:
Potent M₂/M₄ selective antagonist (pKᵢ values are 8.22, 8.00, 7.51, 7.18 and 6.27 at human M₂, M₄, M₁, M₃ and M₅ receptors respectively).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₂H₃₈N₁₀O₂
Batch Molecular Weight: 478.64
Physical Appearance: Pale yellow solid
Minimum Purity: >98%

Batch Molecular Structure:

![Molecular Structure Image]

Storage: Store at RT

Solubility & Usage Info:
DMSO to 50 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: