1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** C\(_{27}\)H\(_{24}\)F\(_3\)N\(_3\)O\(_2\) \(\frac{1}{4}\)H\(_2\)O
- **Batch Molecular Weight:** 483.99
- **Physical Appearance:** Red solid
- **Solubility:** DMSO to 100 mM, ethanol to 100 mM
- **Storage:** Store at -20°C

2. ANALYTICAL DATA

- **TLC:** \(R_f = 0.3\) (Dichloromethane:Methanol:Ammonia soln. [96:2:2])
- **HPLC:** Shows 97.6% purity
- **\(^1\)H NMR:** Consistent with structure
- **Mass Spectrum:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>67</td>
<td>66.89</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.1</td>
<td>4.89</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.68</td>
<td>8.6</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:
Potent and selective Gal₃ antagonist (Kᵢ = 5 nM). Exhibits greater than 100-fold selectivity for Gal₃ over Gal₁, Gal₂, adrenergic A₁a and dopamine D₅ receptors. Anxiolytic- and antidepressant-like effects in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C_{27}H_{34}F_{5}N_{6}O_{2}·\frac{1}{4}H_{2}O
Batch Molecular Weight: 483.99
Physical Appearance: Red solid
Minimum Purity: >97%

Storage: Store at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 100 mM
ethanol 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: