Product Name: ML 289
CAS Number: 1382481-79-9
IUPAC Name: \([(3R)-3-(Hydroxymethyl)-1-pipridinyl][4-[2-(4-methoxyphenyl)ethynyl]phenyl]methanone\]

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \(C_{22}H_{23}NO_3\)
   Batch Molecular Weight: 349.42
   Physical Appearance: White solid
   Solubility: DMSO to 100 mM
              ethanol to 50 mM
   Storage: Store at +4°C
   Batch Molecular Structure:

   ![Molecular Structure](image)

2. ANALYTICAL DATA

   TLC: \(R_f = 0.3\) (Ethyl acetate:Petroleum ether [1:3])
   HPLC: Shows >99.3% purity
   Chiral HPLC: Shows >99.4% purity
   \(^1\)H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
<table>
<thead>
<tr>
<th></th>
<th>C</th>
<th>H</th>
<th>N</th>
</tr>
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<tr>
<td>Theoretical</td>
<td>75.62</td>
<td>6.63</td>
<td>4.01</td>
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<tr>
<td>Found</td>
<td>75.51</td>
<td>6.65</td>
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</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: ML 289  
Catalog No.: 4976  
Batch No.: 1

CAS Number: 1382481-79-9  
IUPAC Name: [(3R)-3-(Hydroxymethyl)-1-pipridinyl][4-[2-(4-methoxyphenyl)ethynyl]phenyl]methanone

Description:
Selective negative allosteric modulator at mGlu3 receptors (IC_{50} = 660 nM). Exhibits 15-fold selectivity for mGlu3 over mGlu2. Centrally penetrant.

Physical and Chemical Properties:
Batch Molecular Formula: C_{22}H_{19}NO_{3}
Batch Molecular Weight: 349.42
Physical Appearance: White solid

Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 50 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: