Product Name: GT 949
Catalog No.: 6578
Batch No.: 1
CAS Number: 460330-27-2
IUPAC Name: 3-((4-Cyclohexylpiperazin-1-yl)(1-phenethyl-1H-tetrazol-5-yl)methyl)-6-methoxyquinolin-2(1H)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{30}H_{37}N_{7}O_{2}
Batch Molecular Weight: 527.66
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM, ethanol to 10 mM with gentle warming
Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.5 \) (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.6% 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>68.29</td>
<td>67.97</td>
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<tr>
<td>Hydrogen</td>
<td>7.07</td>
<td>7.01</td>
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<tr>
<td>Nitrogen</td>
<td>18.58</td>
<td>18.79</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Catalog No.: 6578  
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CAS Number: 460330-27-2  
IUPAC Name: 3-((4-Cyclohexyipiperazin-1-yl)(1-phenethyl-1H-tetrazol-5-yl)methyl)-6-methoxyquinolin-2(1H)-one

Description:
Selective EAAT2 positive allosteric modulator (EC\textsubscript{90} = 0.26 nM). Enhances the glutamate translocation rate, with no effect on substrate interaction. Enhances glutamate uptake by cultured astrocytes by approximately 58%. Exhibits no effect on DAT, SERT and NET or NMDA receptors.

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{30}H\textsubscript{37}N\textsubscript{7}O\textsubscript{2}
Batch Molecular Weight: 527.66
Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 100 mM
ethanol 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: