Product Name: GW 788388  
Catalog No.: 3264  
Batch No.: 1

CAS Number: 452342-67-5

IUPAC Name: 4-[4-[(2-Pyridinyl)-1H-pyrazol-4-yl]-2-pyridinyl]-N-[(tetrahydro-2H-pyran-4-yl)-benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Molecular Formula:</td>
<td>C_{25}H_{23}N_{5}O_{2}\cdot\frac{1}{4}H_{2}O</td>
</tr>
<tr>
<td>Batch Molecular Weight:</td>
<td>429.98</td>
</tr>
<tr>
<td>Physical Appearance:</td>
<td>Off-white solid</td>
</tr>
<tr>
<td>Solubility:</td>
<td>DMSO to 100 mM</td>
</tr>
<tr>
<td>Storage:</td>
<td>Store at +4°C</td>
</tr>
<tr>
<td>Batch Molecular Structure:</td>
<td>![Molecular Structure Image]</td>
</tr>
</tbody>
</table>

2. ANALYTICAL DATA

- **HPLC:** Shows 99.9% purity
- **\textsuperscript{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>69.83</td>
<td>69.88</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.51</td>
<td>5.4</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>16.29</td>
<td>16.36</td>
</tr>
</tbody>
</table>

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

Product Name: GW 788388
CAS Number: 452342-67-5
IUPAC Name: 4-{4-[3-(2-Pyridinyl)-1H-pyrazol-4-yl]-2-pyridinyl}-N-(tetrahydro-2H-pyran-4-yl)-benzamide

Description:
Potent inhibitor of transforming growth factor-β type I receptor (ALK5) (IC₅₀ values are 18 and 93 nM for ALK5 binding and for TGF-β cellular assay respectively). Inhibits esophageal squamous cell carcinoma (ESCC)-induced neoangiogenesis. Orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₉H₂₆N₂O₂·¼H₂O
Batch Molecular Weight: 429.98
Physical Appearance: Off-white solid
Minimum Purity: >98%

Storage: Store at +4°C

Solubility & Usage Info:
DMSO 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:
