Product Name: JNJ 47965567  
Catalog No.: 5299  
Batch No.: 5

CAS Number: 1428327-31-4  
IUPAC Name: 2-(Phenythio)-N-[[tetrahydro-4-(4-phenyl-1-piperazinyl)-2H-pyran-4-yl]methyl-3-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{28}H_{32}N_{4}O_{2}S  
Batch Molecular Weight: 488.64  
Physical Appearance: White solid  
Solubility: 1 eq. HCl to 50 mM  
DMSO to 100 mM  
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: R_f = 0.43 (Dichloromethane:Methanol [95:5])

HPLC: Shows 99.8% purity

^1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
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<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com  
info@bio-techne.com  
techsupport@bio-techne.com  
North America  
Tel: (800) 343 7475

China  
info.cn@bio-techne.com  
Tel: +86 (21) 52380373

Europe Middle East Africa  
Tel: +44 (0)1235 529449

Rest of World  
www.tocris.com/distributors  
Tel:+1 612 379 2956
Product Name: JNJ 47965567
Catalog No.: 5299
Batch No.: 5

CAS Number: 1428327-31-4
IUPAC Name: 2-(Phenylthio)-N-[[tetrahydro-4-(4-phenyl-1-piperazinyl)-2H-pyran-4-yl]methyl-3-pyridinecarboxamide

**Description:**
Potent and selective P2X7 antagonist (pIC50 values are 8.3, 7.5 and 7.2 for human, mouse and rat receptors respectively). Selective over a panel of 50 other receptors, ion channels and transporters. Reduces BzATP-induced IL-1β release from monocytes in vitro and from rat brain in vivo. Attenuates amphetamine-induced hyperactivity in rats. Brain penetrant.

**Physical and Chemical Properties:**
- Batch Molecular Formula: C29H36N8O2S
- Batch Molecular Weight: 488.64
- Physical Appearance: White solid
- Minimum Purity: >98%

**Storage:** Store at +4°C

**Solubility & Usage Info:**
1eq. HCl to 50 mM
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:**