Product Name: YM 58483  
Catalog No.: 3939  
Batch No.: 2

IUPAC Name: \(N\text{-}[4\text{-}[3,5\text{-}Bis\text{(trifluoromethyl)-1H-pyrazol-1-yl][phenyl]}\text{-}4\text{-}methyl\text{-}1,2,3\text{-thiadiazole-5\text{-}carboxamide}}\)

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{15}H_{9}F_{6}N_{5}OS\)
Batch Molecular Weight: 421.32
Physical Appearance: White solid
Solubility: DMSO to 100 mM ethanol to 100 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: \(R_f = 0.45\) (Dichloromethane:Ethyl acetate [95:5])
HPLC: Shows 100% purity
\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
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<td>42.76</td>
<td>2.15</td>
<td>16.62</td>
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<tr>
<td>Found</td>
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<td>2.09</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: YM 58483
CAS Number: 223499-30-7
IUPAC Name: N-[4-[3,5-Bis(trifluoromethyl)-1H-pyrazol-1-yl]phenyl]-4-methyl-1,2,3-thiadiazole-5-carboxamide

Description:
Blocker of store-operated Ca\(^{2+}\) entry (SOCE), which mediates the activation of non-excitable cells (e.g. lymphocytes). Inhibits calcium release-activated calcium (CRAC) channels; suppresses thapsigargin-induced sustained Ca\(^{2+}\) influx (IC\(_{50}\) = 100 nM). Displays immuno-modulatory and anti-inflammatory effects; suppresses cytokine production and proliferation of T cells in vitro.

Physical and Chemical Properties:
- Batch Molecular Formula: C\(_{22}\)H\(_{15}\)F\(_{8}\)N\(_{3}\)O\(_{6}\)
- Batch Molecular Weight: 421.32
- Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

![Molecular Structure Image]

Storage: Store at +4°C

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:
