1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{14}\text{N}_{3}\text{OF} \cdot \frac{1}{4}\text{H}_2\text{O} \)

Batch Molecular Weight: 335.85

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

TLC: \( R_f = 0.17 \) (Ethyl acetate)

HPLC: Shows 99.5% purity

\(^1\text{H NMR:} \) 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>C</td>
<td>71.53</td>
<td>71.52</td>
</tr>
<tr>
<td>H</td>
<td>4.35</td>
<td>4.34</td>
</tr>
<tr>
<td>N</td>
<td>12.51</td>
<td>12.5</td>
</tr>
</tbody>
</table>

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 Information

Product Name: SB 202190
Catalog No.: 1264
Batch No.: 5
CAS Number: 152121-30-7
IUPAC Name: 4-[4-(4-Fluorophenyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]phenol

Description:
A highly selective, potent and cell-permeable inhibitor of p38 MAP kinase. Binds within the ATP pocket of the active kinase (Kd = 38 nM, as measured in recombinant human p38), and selectively inhibits the p38α and β isoforms (IC50 = 50 and 100 nM at SAPK2a/p38 and SAPK2b/p38β2 respectively). Promotes stability of naive human pluripotent stem cells in culture. Also available as part of the MAPK Inhibitor Tocriset™.

Physical and Chemical Properties:
Batch Molecular Formula: C20H14N2OF.¼H2O
Batch Molecular Weight: 335.85
Physical Appearance: Off White solid
Minimum Purity: >99%

Storage: Store at -20°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.

Licensing Information:
Sold with the permission of GlaxoSmithKline

References: