1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{18}\text{H}_{19}\text{FN}_{4}\text{O}_{2} \)

Batch Molecular Weight: 342.37

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 97.6% 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>
<td>Theoretical</td>
<td>63.15</td>
<td>5.59</td>
<td>16.36</td>
</tr>
<tr>
<td>Found</td>
<td>62.96</td>
<td>5.37</td>
<td>16.32</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Fmk
Catalog No.: 4690
Batch No.: 1

CAS Number: 821794-92-7
IUPAC Name: 1-[4-Amino-7-(3-hydroxypropyl)-5-(4-methylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-6-yl]-2-fluoroethanone

Description:
Potent irreversible RSK1/2 inhibitor (IC_{50} = 15 nM). Inactivates the C-terminal auto-kinase domain activity. Suppresses RSK2 kinase activity in RSK2-expressing HNSCC cell lines. Reduces HNSCC cell invasive ability. Displays no effect on EGF-stimulated phosphorylation of ERK1 or ERK2.

Physical and Chemical Properties:
Batch Molecular Formula: C_{18}H_{15}FN_{4}O_{2}
Batch Molecular Weight: 342.37
Physical Appearance: Yellow solid

Minimum Purity: >97%

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.

References:
