1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{21}\text{H}_{25}\text{N}_{5}\text{O}_{3}\text{S}_{0.4}\text{H}_{2}\text{O} \)

Batch Molecular Weight: 432.02

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

 Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: \( R_f = 0.3 \) (Dichloromethane:Methanol [95:5])

HPLC: Shows 98% 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>58.38</td>
<td>5.95</td>
<td>16.21</td>
</tr>
<tr>
<td>Found</td>
<td>58.46</td>
<td>5.9</td>
<td>15.96</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Description:
Adaptor-associated protein kinase 1 (AAK1) and BMP-2-inducible protein kinase (BMP2K) inhibitor (IC$_{50}$ values are 233 nM and 1.48 μM for AAK1 and BMP2K, respectively). Inhibits AAK1-dependent phosphorylation of AP2M1. Activates Wnt signaling.

Physical and Chemical Properties:
Batch Molecular Formula: C$_{21}$H$_{28}$N$_5$O$_3$S.½H$_2$O
Batch Molecular Weight: 432.02
Physical Appearance: Beige solid
Minimum Purity: >98%

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:
This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the SGC-AAK1-1 probe summary on the SGC website.

References: