1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{18}\text{H}_{21}\text{FN}_{2}\text{O}_{6}\text{S} \)
Batch Molecular Weight: 412.43
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
\(^1\text{H} \text{NMR}: \) 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>52.42</td>
<td>5.13</td>
<td>6.79</td>
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<tr>
<td>Found</td>
<td>52.31</td>
<td>5.14</td>
<td>6.76</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: PF 5081090  
Catalog No.: 4362  
Batch No.: 1

CAS Number: 1312473-63-4
IUPAC Name: \((\alpha R)-4-(2\text{-Fluoro-4-methoxyphenyl})-N\text{-hydroxy-}\alpha\text{-methyl-}\alpha\text{-}(methylsulfonyl)-2\text{-oxo-1}(2H)\text{-pyridinebutanamide}\)

Description:
Potent antibacterial agent which disrupts lipid bilayer synthesis through inhibition of LpxC (IC\text{50} = 1.1 \text{nM} \text{ in Pseudomonas aeruginosa}); effective against a range of gram negative bacteria.

Physical and Chemical Properties:
Batch Molecular Formula: C\text{19}H\text{18}FN\text{3}O\text{5}S
Batch Molecular Weight: 412.43
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.

References: