1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{16}\text{H}_{14}\text{F}_{3}\text{IN}_{2}\text{O}_{4} \)

   Batch Molecular Weight: 482.19

   Physical Appearance: Off-white solid

   Solubility: DMSO to 25 mM

   Storage: Store at -20°C

2. ANALYTICAL DATA

   HPLC: Shows 100.0% purity

   \(^1\text{H} \text{NMR:} \) Consistent with structure

   Mass Spectrum: Consistent with structure

   Microanalysis:

<table>
<thead>
<tr>
<th>Component</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>39.85</td>
<td>39.85</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>2.93</td>
<td>2.89</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>5.81</td>
<td>5.84</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Description:
Potent MEK1 and MEK2 inhibitor. Inhibits MEK activity in mouse colon 26 cells (IC50 = 0.33 nM). Inhibits the growth of melanoma cell lines in vitro and in vivo; induces G1-phase cell cycle arrest and apoptosis in a mouse xenograft model. Also inhibits production of proangiogenic cytokines such as VEGF. Enhances generation of induced pluripotent stem cells (iPSCs). Orally active.

Physical and Chemical Properties:
Batch Molecular Formula: C16H14F3N2O4
Batch Molecular Weight: 482.19
Physical Appearance: Off-white solid
Minimum Purity: ≥99%

Storage: Store at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
DMSO to 25 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 for research purposes under agreement from Pfizer Inc.

References: