Product Name: FCCP
CAS Number: 370-86-5
IUPAC Name: Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{10}\text{H}_{5}\text{F}_{3}\text{N}_{4}\text{O} \cdot 0.1\text{H}_{2}\text{O} \)
Batch Molecular Weight: 255.97
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.5 \) (Ethyl acetate:Hexane [8:1])
Melting Point: Between 170 - 173°C
HPLC: Shows >99.9% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>46.92</td>
<td>47.28</td>
</tr>
<tr>
<td>2.05</td>
<td>1.91</td>
</tr>
<tr>
<td>21.89</td>
<td>21.52</td>
</tr>
</tbody>
</table>
Product Information

Product Name: FCCP
Catalog No.: 0453
Batch No.: 2

CAS Number: 370-86-5
EC Number: 206-730-8
IUPAC Name: Carboxyl cyanide 4-(trifluoromethoxy)phenylhydrazone

Description:
A very potent uncoupler of oxidative phosphorylation in mitochondria.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₀H₇F₃N₄O₆.0.1H₂O
Batch Molecular Weight: 255.97
Physical Appearance: Yellow solid

Minimum Purity: >99%

Storage: Store at RT

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: