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Print Date: Apr 8th 2019

Certificate of Analysis

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Product Name: **FCCP** **Catalog No.: 0453** **Batch No.: 3**

CAS Number: 370-86-5 EC Number: 206-730-8

IUPAC Name: Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_5F_3N_4O$

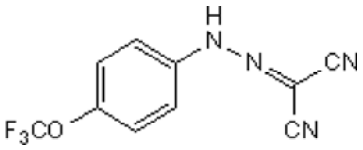
Batch Molecular Weight: 254.17

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.25	1.98	22.04
Found	47.38	1.93	21.97

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Product Information

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CAS Number: 370-86-5 EC Number: 206-730-8

IUPAC Name: Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone

Description:

A very potent uncoupler of oxidative phosphorylation in mitochondria.

Physical and Chemical Properties:

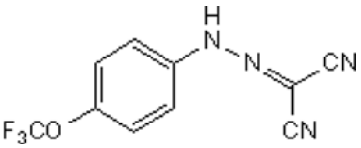
Batch Molecular Formula: $C_{10}H_5F_3N_4O$

Batch Molecular Weight: 254.17

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



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:

Connop *et al* (1999) Novel effects of FCCP [carbonyl cyanide *p*-(trifluoromethoxy)phenylhydrazone] on amyloid precursor protein processing. J.Neurochem. ***72*** 1457. PMID: 10098849.

Heytler and Pritchard (1962) A new class of uncoupling agents - carbonyl cyanide phenylhydrazones. Biochem.Biophys.Res.Commun. ***7*** 272. PMID: 13907155.

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