

Certificate of Analysis

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Product Name: (±)-CPSI 1306

Catalog No.: 4400

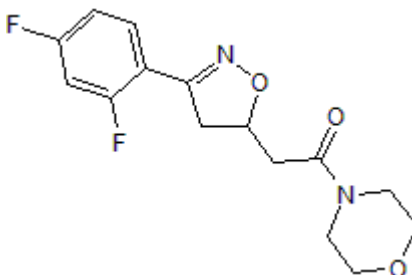
Batch No.: 1

CAS Number: 1309793-47-2

IUPAC Name: 2-[3-(3-(2,4-Difluorophenyl)-4,5-dihydro-5-isoxazolyl)-1-(4-morpholinyl)ethanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₅ H ₁₆ F ₂ N ₂ O ₃
Batch Molecular Weight:	310.3
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.17 (Ethyl acetate:Petroleum ether [1:1])
HPLC:	Shows >99.8% purity
Chiral HPLC:	Shows 50% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	58.06	5.2	9.03
Found	58.32	5.35	8.75

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 2-[3-(3-(2,4-Difluorophenyl)-4,5-dihydro-5-isoxazolyl)-1-(4-morpholinyl)ethanone

Description:

Reported to be a macrophage inhibitory factor (MIF) inhibitor.

Physical and Chemical Properties:

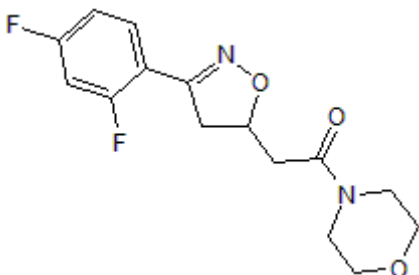
Batch Molecular Formula: C₁₅H₁₆F₂N₂O₃

Batch Molecular Weight: 310.3

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Kithcart et al (2010) A small-molecule inhibitor of macrophage migration inhibitory factor for the treatment of inflammatory disease. *FASEB J.* **24** 4459. PMID: 20624927.

Sanchez-Zamora et al (2010) Macrophage migration inhibitory factor is a therapeutic target in treatment of non-insulin-dependent diabetes mellitus. *FASEB J.* **24** 2583. PMID: 20203087.

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