

Product Name: PF 05175157

Catalog No.: 5790

Batch No.: 3

CAS Number: 1301214-47-0

IUPAC Name: 1,4-Dihydro-1'-[2-methyl-1*H*-benzimidazol-6-yl]carbonyl]-1-(1-methylethyl)-spiro[5*H*-indazole-5,4'-piperidin]-7(6*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₇N₅O₂· $\frac{1}{4}$ H₂O

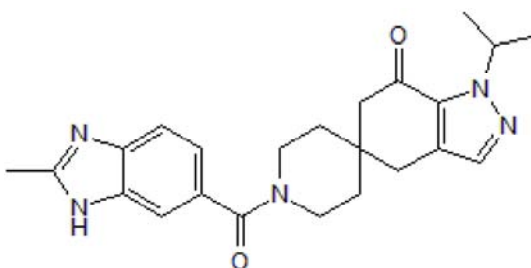
Batch Molecular Weight: 409.99

Physical Appearance: White solid

Solubility: DMSO to 50 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.38	6.76	17.08
Found	67.44	6.71	17.18

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

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Description:

PF 05175157 is an potent acetyl-CoA carboxylase (ACC) 2 and 1 inhibitor (IC₅₀ values are 45 and 98 nM, respectively). Reduces hepatic and skeletal muscle malonyl-CoA levels in rats. Also inhibits hepatic de novo lipogenesis and reduces whole body respiratory exchange ratio in rats. Orally bioavailable.

Physical and Chemical Properties:

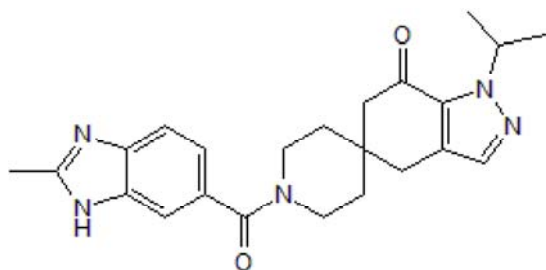
Batch Molecular Formula: C₂₃H₂₇N₅O₂·¼H₂O

Batch Molecular Weight: 409.99

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 20 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:

Griffith et al (2014) Decreasing the rate of metabolic ketone reduction in the discovery of a clinical acetyl-CoA carboxylase inhibitor for the treatment of diabetes. *J.Med.Chem.* **57** 10512. PMID: 25423286.

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