

Product Name: CBM 301940

Catalog No.: 6319

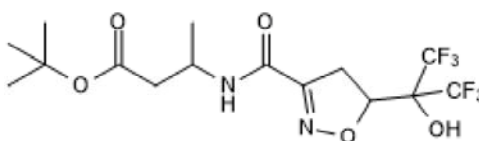
Batch No.: 1

CAS Number: 902146-11-6

IUPAC Name: *tert*-Butyl 3-(5-(1,1,1,3,3,3-hexafluoro-2-hydroxypropan-2-yl)-4,5-dihydroisoxazole-3-carboxamido)butanoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Weight: 422.32
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.66	4.77	6.63
Found	42.97	4.78	6.55

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

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Description:

Potent malonyl-CoA decarboxylase (MCD) inhibitor (IC_{50} = 23 nM). Suppresses malonyl-CoA degradation and fatty acid oxidation in isolated rat hearts, leading to secondary increase in glucose oxidation. Improves cardiac function during reperfusion of ischemic isolated rat hearts. Orally bioavailable.

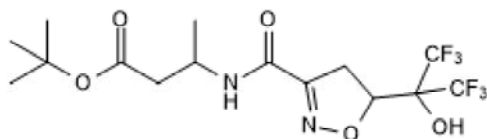
Physical and Chemical Properties:

Batch Molecular Weight: 422.32

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Cheng et al (2006) Discovery of potent and orally available malonyl-CoA decarboxylase inhibitors as cardioprotective agents. *J.Med.Chem.* **49** 4055. PMID: 16821767.

Dyck et al (2004) Malonyl coenzyme a decarboxylase inhibition protects the ischemic heart by inhibiting fatty acid oxidation and stimulating glucose oxidation. *Circ.Res.* **94** e78. PMID: 15105298.

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