

Product Name: GSK 2194069

Catalog No.: 5303

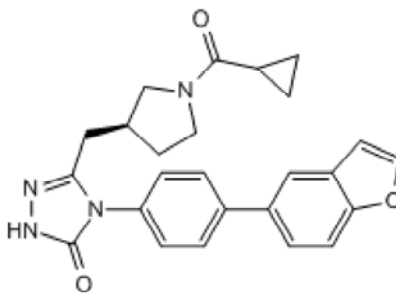
Batch No.: 1

CAS Number: 1332331-08-4

IUPAC Name: 4-[4-(5-Benzofuranyl)phenyl]-5-[[[(3S)-1-(cyclopropylcarbonyl)-3-pyrrolidiny]methyl]-2,4-dihydro-3H-1,2,4-triazol-3-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₅ H ₂₄ N ₄ O ₃
Batch Molecular Weight:	428.48
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 20 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.4% purity
Chiral HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical	70.08	5.65	13.08
	Found	69.88	5.63	13.02

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

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Description:

GSK 2194069 is a potent human fatty acid synthase (hFASN) inhibitor (IC_{50} = 7.7 nM); inhibits hFAS β -ketoacyl reductase activity. Inhibits lipid synthesis and attenuates proliferation of A549 non-small-cell lung cancer cells (EC_{50} = 15 nM) in vitro. GSK 2194069 also inhibits infection by SARS-CoV-2 (EC_{50} = 0.9 nM) in vitro.

Physical and Chemical Properties:

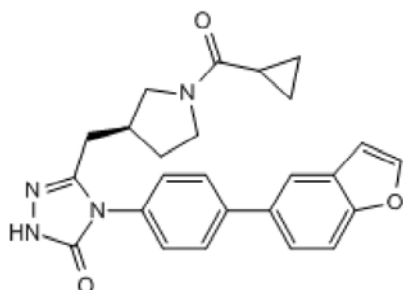
Batch Molecular Formula: $C_{25}H_{24}N_4O_3$

Batch Molecular Weight: 428.48

Physical Appearance: White solid

Minimum Purity: $\geq 99\%$

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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 GlaxoSmithKline

References:

Chu et al (2021) Pharmacological inhibition of fatty acid synthesis blocks SARS-CoV-2 replication. *Nat.Metab.* **3** 1466. PMID: 34580494.

Hardwicke et al (2014) A human fatty acid synthase inhibitor binds β -ketoacyl reductase in the keto-substrate site. *Nat.Chem.Biol.* **10** 774. PMID: 25086508.

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