

**Product Name:** GW 6471

**Catalog No.:** 4618

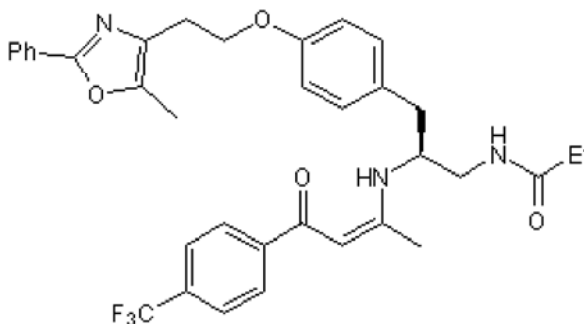
**Batch No.:** 7

CAS Number: 880635-03-0

IUPAC Name: *N*-((2*S*)-2-(((1*Z*)-1-Methyl-3-oxo-3-(4-(trifluoromethyl)phenyl)prop-1-enyl)amino)-3-(4-(2-(5-methyl-2-phenyl-1,3-oxazol-4-yl)ethoxy)phenyl)propyl)propanamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>35</sub> H <sub>36</sub> F <sub>3</sub> N <sub>3</sub> O <sub>4</sub>
<b>Batch Molecular Weight:</b>	619.67
<b>Physical Appearance:</b>	Cream solid
<b>Solubility:</b>	DMSO to 75 mM ethanol to 10 mM
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.0% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Optical Rotation:</b>	[α] <sub>D</sub> = -267 (Concentration = 0.5, Solvent = Chloroform)
<b>Microanalysis:</b>	
	Carbon Hydrogen Nitrogen
	Theoretical 67.84 5.86 6.78
	Found 67.74 5.85 6.88

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

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**Description:**

GW 6471 is a PPAR $\alpha$  antagonist (IC<sub>50</sub> = 0.24  $\mu$ M). GW 6471 enhances the binding affinity of the PPAR $\alpha$  ligand-binding domain to the co-repressor proteins SMRT and NCoR. GW 6471 blocks SARS-CoV-2 infection in airway organoids (EC<sub>50</sub> = 2.1  $\mu$ M) by blocking and downregulating the hypoxia inducible factor 1 subunit alpha (HIF1 $\alpha$ ) and HIF1 pathway; also reduces viral RNA. GW 6471 induces apoptosis and cell cycle arrest in kidney cancer cells.

**Physical and Chemical Properties:**

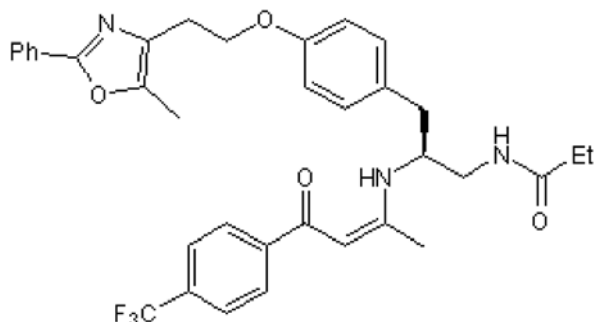
Batch Molecular Formula: C<sub>35</sub>H<sub>36</sub>F<sub>3</sub>N<sub>3</sub>O<sub>4</sub>

Batch Molecular Weight: 619.67

Physical Appearance: Cream solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**References:**

**Duan *et al*** (2021) An airway organoid-based screen identifies a role for the HIF1 $\alpha$ -glycolysis axis in SARS-CoV-2 infection. *Cell Rep.* **37**. PMID: 34731648.

**Aboud *et al*** (2013) Inhibition of PPAR $\alpha$  induces cell cycle arrest and apoptosis, and synergizes with glycolysis inhibition in kidney cancer cells. *PLoS One* **8**. PMID: 23951092.

**Muller *et al*** (2009) An innovative method to study target protein-drug interactions by mass spectrometry. *J.Med.Chem.* **52** 2875. PMID: 19379014.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 75 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.

**Licensing Information:**

Sold with the permission of GlaxoSmithKline.

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