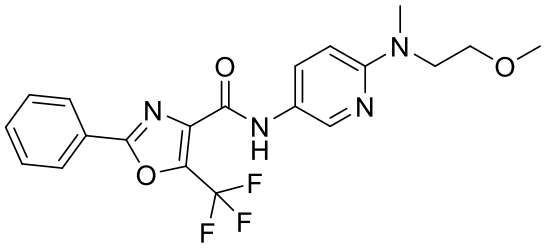
Product data sheet

MedKoo Cat#: 555832 Name: RO-5006036 CAS#: 939375-07-2 Chemical Formula: $C_{20}H_{19}F_3N_4O_3$ Exact Mass: 420.1409 Molecular Weight: 420.39	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:
RO-5006036, also known as DGAT1-IN-3, is a potent, selective and orally bioavailable inhibitor of DGAT-1.

2. CoA, QC data, SDS, and handling instruction
SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	100	237.87

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.38 mL	11.89 mL	23.79 mL
5 mM	0.48 mL	2.38 mL	4.76 mL
10 mM	0.24 mL	1.19 mL	2.38 mL
50 mM	0.05 mL	0.24 mL	0.48 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator
Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study
In vitro study

To be determined

In vivo study

1. Yun W, Ahmad M, Chen Y, Gillespie P, Conde-Knape K, Kazmer S, Li S, Qian Y, Taub R, Wertheimer SJ, Whittard T, Bolin D. Discovery and optimization of 2-phenyloxazole derivatives as diacylglycerol acyltransferase-1 inhibitors. Bioorg Med Chem Lett. 2011 Dec 1;21(23):7205-9. doi: 10.1016/j.bmcl.2011.09.039. Epub 2011 Sep 22. PMID: 22001092.
2. Qian Y, Wertheimer SJ, Ahmad M, Cheung AW, Firooznia F, Hamilton MM, Hayden S, Li S, Marcopulos N, McDermott L, Tan J, Yun W, Guo L, Pamidimukkala A, Chen Y, Huang KS, Ramsey GB, Whittard T, Conde-Knape K, Taub R, Rondinone CM, Tilley J, Bolin D. Discovery of orally active carboxylic acid derivatives of 2-phenyl-5-trifluoromethyloxazole-4-carboxamide as potent diacylglycerol acyltransferase-1 inhibitors for the potential treatment of obesity and diabetes. J Med Chem. 2011 Apr 14;54(7):2433-46. doi: 10.1021/jm101580m. Epub 2011 Mar 17. PMID: 21413799.

7. Bioactivity
Biological target:

RO-5006036 has IC50s of 38 nM for human DGAT-1 and 120 nM for rat DGAT-1.

In vitro activity

To be determined

Product data sheet

In vivo activity

RO-5006036 demonstrated in vivo efficacy in a diet-induced obesity rat model.

Reference: Bioorg Med Chem Lett. 2011 Dec 1;21(23):7205-9. https://pubmed.ncbi.nlm.nih.gov/22001092/

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.