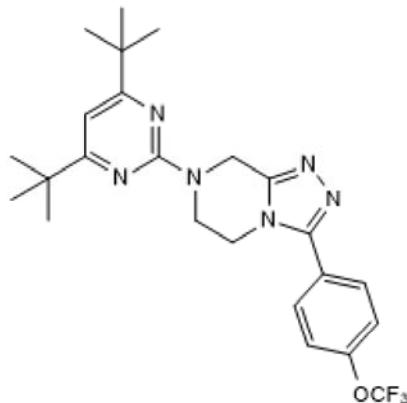


Certificate of Analysiswww.tocris.com**Product Name:** JTP 103237**Catalog No.:** 6765**Batch No.:** 1

CAS Number: 1883864-16-1

IUPAC Name: 7-[4,6-Bis(1,1-dimethylethyl)-2-pyrimidinyl]-5,6,7,8-tetrahydro-3-[4-(trifluoromethoxy)phenyl]-1,2,4-triazolo[4,3-a]pyrazine

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₂₄H₂₉F₃N₆O**Batch Molecular Weight:** 474.52**Physical Appearance:** White solid**Solubility:** ethanol to 100 mM
DMSO to 20 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.51 (Diethyl ether)**HPLC:** Shows 98.9% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 60.75 6.16 17.71

Found 60.54 6.19 17.62

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Information

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Catalog No.: 6765

Batch No.: 1

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Description:

Potent and selective monoacylglycerol acyltransferase 2 (MOGAT2) inhibitor ($IC_{50} = 20 - 40$ nM). Displays >7000-fold selectivity for human MOGAT2 over human DGAT2. Modulates intestinal lipid absorption in mice. Decreases triglyceride, diacylglycerol and fatty acid synthesis in mouse model of fatty liver. Chronic treatment decreases hepatic triglyceride content and body weight, and improves glucose tolerance in diet-induced obese mice.

Physical and Chemical Properties:

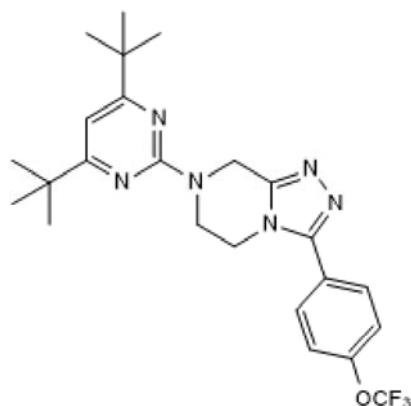
Batch Molecular Formula: $C_{24}H_{29}F_3N_6O$

Batch Molecular Weight: 474.52

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Okuma *et al* (2015) JTP-103237, a novel monoacylglycerol acyltransferase inhibitor, modulates fat absorption and prevents diet-induced obesity. *Eur.J.Pharmacol.* **758** 72. PMID: 25857225.

Okuma *et al* (2015) JTP-103237, a monoacylglycerol acyltransferase inhibitor, prevents fatty liver and suppresses both triglyceride synthesis and de novo lipogenesis. *J.Pharmacol.Sci.* **128** 150. PMID: 26215699.

Storage: Store at -20°C

Solubility & Usage Info:

ethanol to 100 mM

DMSO 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.

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North America

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China

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Tel: +86 (21) 52380373

Europe Middle East Africa

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Tel: +1 612 379 2956