

**Product Name:** JTP 103237

**Catalog No.:** 6765

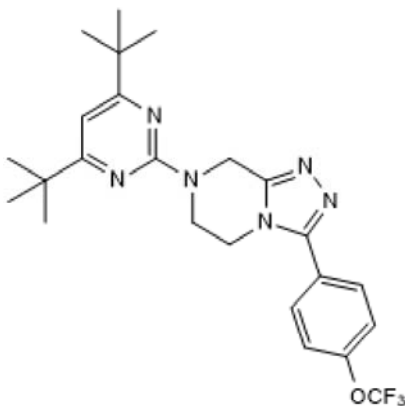
**Batch No.:** 1

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:** C<sub>24</sub>H<sub>29</sub>F<sub>3</sub>N<sub>6</sub>O  
**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<sub>f</sub> = 0.51 (Diethyl ether)  
**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H 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

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**Description:**

Potent and selective monoacylglycerol acyltransferase 2 (MOGAT2) inhibitor (IC<sub>50</sub> = 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:**

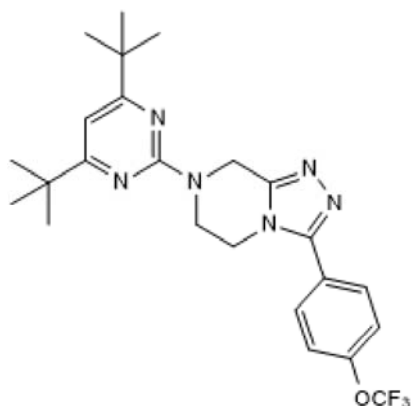
Batch Molecular Formula: C<sub>24</sub>H<sub>29</sub>F<sub>3</sub>N<sub>6</sub>O

Batch Molecular Weight: 474.52

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**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.

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