

## Certificate of Analysis

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**Product Name:** VULM 1457

**Catalog No.:** 2988

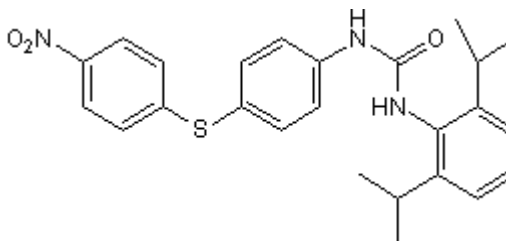
**Batch No.:** 1

**CAS Number:** 228544-65-8

**IUPAC Name:** *N*-[2,6-*bis*(1-Methylethyl)phenyl]-*N*'-[4-[(4-nitrophenyl)thio]phenyl]urea

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>25</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 449.57  
**Physical Appearance:** Yellow crystalline solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 5 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows >99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.79	6.05	9.35
Found	66.85	6.24	9.27

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

## Product Information

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### Description:

Acyl-CoA: cholesterol acyltransferase (ACAT) inhibitor. Decreases cholesterol levels in the plasma and liver of diabetic-hypercholesterolemic rats.

### Physical and Chemical Properties:

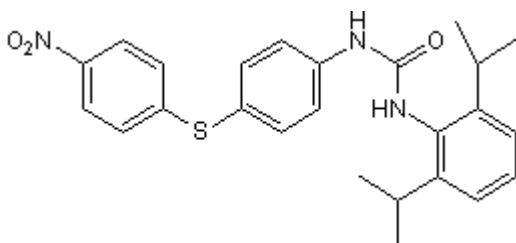
Batch Molecular Formula: C<sub>25</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>S

Batch Molecular Weight: 449.57

Physical Appearance: Yellow crystalline solid

**Minimum Purity:** >99%

### Batch Molecular Structure:



**Storage:** Store at +4°C

### Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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:

**Adameova et al** (2006) Protective effect of simvastatin and VULM 1457 in ischaemic-reperfused myocardium of the diabetic-hypercholesterolemic rats. *Pharmazie* **61** 807. PMID: 17020164.

**Adameova et al** (2007) The myocardial infarct size-limiting and antiarrhythmic effects of acyl-CoA: cholesterol acyltransferase inhibitor VULM 1457 protect the hearts of diabetic-hypercholesterolaemic rats against ischaemia/reperfusion injury both *in vitro* and *in vivo*. *Eur.J.Pharmacol.* **576** 114. PMID: 17764671.

**Vojtassakova et al** (2007) Effect of VULM 1457, an ACAT inhibitor, on serum lipid levels and on real time red blood cell flow in diabetic and non-diabetic hamsters fed high cholesterol-lipid diet. *Gen.Physiol.Biophys.* **26** 254. PMID: 18281742.

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