

## Certificate of Analysis

**Product Name:** RHC 80267

**Catalog No.:** 1842

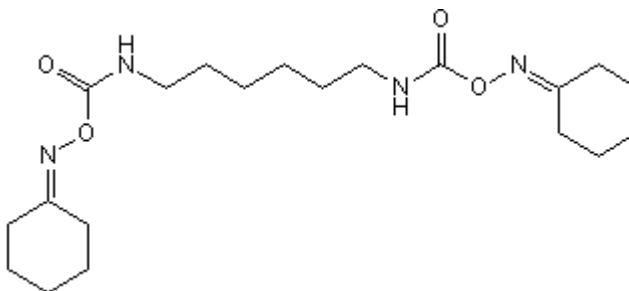
**Batch No.:** 1

**CAS Number:** 83654-05-1

**IUPAC Name:** O,O'-[1,6-Hexanediylbis(iminocarbonyl)]dioxime cyclohexanone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>34</sub>N<sub>4</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 394.51  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Melting Point:** Between 121 - 125°C  
**HPLC:** Shows 95.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	60.89	8.69	14.19
Found	60.59	8.67	14.01

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

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**Description:**

Inhibitor of diacylglycerol lipase (IC<sub>50</sub> values are 1.1 and 4 μM in rat cardiac myocytes and canine platelets respectively). Weakly inhibits phospholipases C and A<sub>2</sub>. Potentiates acetylcholine evoked relaxation in mesenteric arteries by the inhibition of cholinesterase activity (IC<sub>50</sub> = 4 μM).

**Physical and Chemical Properties:**

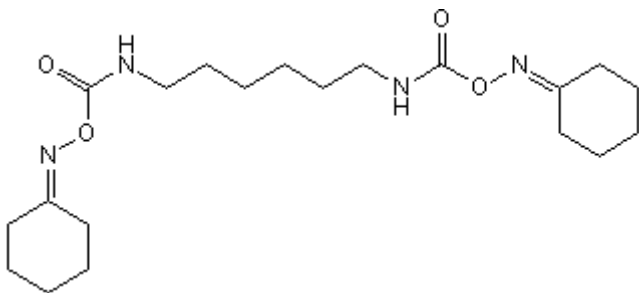
Batch Molecular Formula: C<sub>20</sub>H<sub>34</sub>N<sub>4</sub>O<sub>4</sub>

Batch Molecular Weight: 394.51

Physical Appearance: Off-white solid

**Minimum Purity:** >95%

**Batch Molecular Structure:**



**References:**

**Sutherland and Amin** (1982) Relative activities of rat and dog platelet phospholipase A<sub>2</sub> and diglyceride lipase. *J.Biol.Chem.* **257** 14006. PMID: 7142192.

**Suzuki et al** (2002) Effects of RHC-80267, an inhibitor of diacylglycerol lipase, on excitation of circular smooth muscle of the guinea-pig gastric antrum. *J.Smooth Muscle Res.* **38** 153. PMID: 12713022.

**Ghisdal et al** (2005) The diacylglycerol lipase inhibitor RHC-80267 potentiates the relaxation to acetylcholine in rat mesenteric artery by anti-cholinesterase action. *Eur.J.Pharmacol.* **517** 97. PMID: 15958263.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 100 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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