

Product Name: RHC 80267

Catalog No.: 1842

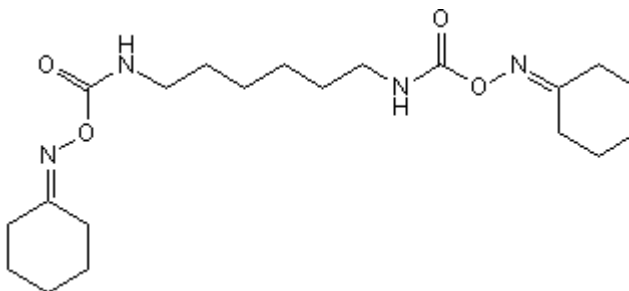
Batch No.: 1

CAS Number: 83654-05-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₃₄N₄O₄
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
¹H 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

Tocris Bioscience is an R&D Systems company
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
 www.RnDSystems.com

R&D
SYSTEMS®

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

Description:

Inhibitor of diacylglycerol lipase (IC₅₀ values are 1.1 and 4 µM in rat cardiac myocytes and canine platelets respectively). Weakly inhibits phospholipases C and A₂. Potentiates acetylcholine evoked relaxation in mesenteric arteries by the inhibition of cholinesterase activity (IC₅₀ = 4 µM).

Physical and Chemical Properties:

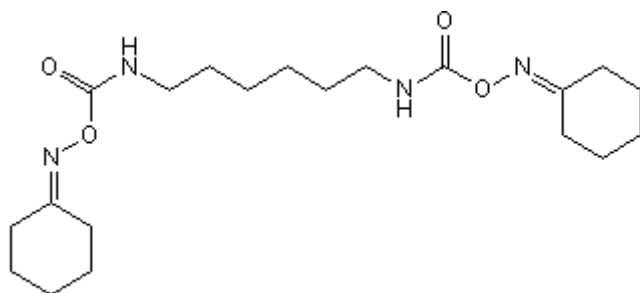
Batch Molecular Formula: C₂₀H₃₄N₄O₄

Batch Molecular Weight: 394.51

Physical Appearance: Off-white solid

Minimum Purity: >95%

Batch Molecular Structure:



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.

References:

Sutherland and Amin (1982) Relative activities of rat and dog platelet phospholipase A₂ 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.

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

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®