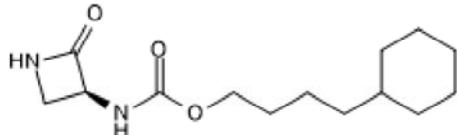


Certificate of Analysiswww.tocris.com**Product Name:** ARN 726**Catalog No.:** 5861**Batch No.:** 1

CAS Number: 1628343-77-0

IUPAC Name: 4-Cyclohexylbutyl-*N*-(*S*)-2-oxoazetidin-3-yl]carbamate**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₄H₂₄N₂O₃**Batch Molecular Weight:** 268.35**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM
ethanol to 100 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.2 (Ethyl acetate:Petroleum ether [1:1])**HPLC:** Shows 99.8% purity**Chiral HPLC:** Shows 99.8% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 62.66 9.01 10.44

Found 62.64 9.03 10.45

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

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Product Information

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Product Name: ARN 726

Catalog No.: 5861

Batch No.: 1

CAS Number: 1628343-77-0

IUPAC Name: 4-Cyclohexylbutyl-N-[(S)-2-oxoazetidin-3-yl]carbamate

Description:

Potent N-acylethanolamine acid amidase (NAAA) inhibitor (IC_{50} values are 27 nM and 63 nM for human and rat NAAA, respectively). Displays anti-inflammatory effects in human macrophages *ex vivo* and mouse models of lung inflammation and arthritis. Also used as NAAA activity-based protein profiling (ABPP) probe to detect NAAA in cell lysates or intact cells.

Physical and Chemical Properties:

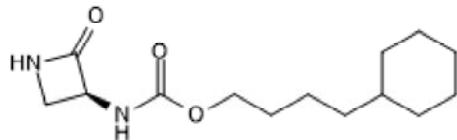
Batch Molecular Formula: $C_{14}H_{24}N_2O_3$

Batch Molecular Weight: 268.35

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°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:

Bonezzi et al (2016) An important role for *N*-acylethanolamine acid amidase in the complete freund's adjuvant rat model of arthritis. *J.Pharmacol.Exp.Ther.* **356** 656. PMID: 26769918.

Ribeiro et al (2015) A potent systemically active *N*-acylethanolamine acid amidase inhibitor that suppresses inflammation and human macrophage activation. *ACS Chem.Biol.* **10** 1838. PMID: 25874594.

Romeo et al (2015) Activity-based probe for *N*-acylethanolamine acid amidase. *ACS Chem.Biol.* **10** 2057. PMID: 26102511.

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