

Product Name: ARN 726

Catalog No.: 5861

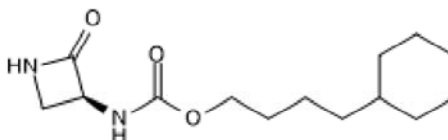
Batch No.: 1

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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Description:

Potent N-acylethanolamine acid amidase (NAAA) inhibitor (IC₅₀ 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:

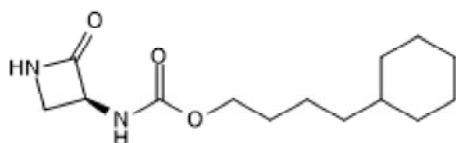
Batch Molecular Formula: C₁₄H₂₄N₂O₃

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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