Print Date: Apr 4th 2019

Certificate of Analysis

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Product Name: **ARN 14686** **Catalog No.: 5862** **Batch No.: 1**

CAS Number: 1628345-10-7

IUPAC Name: (*S*)-Undec-10-yn-1-yl (2-oxoazetidin-3-yl)carbamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{24}N_2O_3$

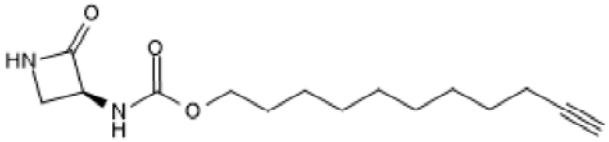
Batch Molecular Weight: 280.36

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 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 99.3% purity

Chiral HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.26	8.63	9.99
Found	63.99	8.64	10.13

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Product Information

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IUPAC Name: (*S*)-Undec-10-yn-1-yl (2-oxoazetidin-3-yl)carbamate

Description:

NAAA (N-acylethanolamine acid amidase) activity-based protein profiling (ABPP) probe. Can be used to detect NAAA in cell lysates or intact cells. Covalently binds the N-terminal cysteine of catalytically active NAAA. Detects catalytically active NAAA in inflamed rat paw in CFA model of inflammation. Potent NAAA inhibitor (IC_{50} = 6 nM).

Physical and Chemical Properties:

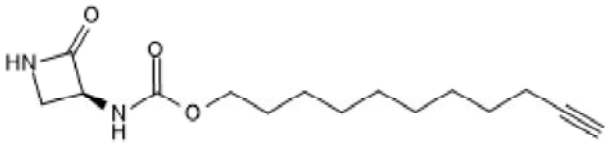
Batch Molecular Formula: $C_{15}H_{24}N_2O_3$

Batch Molecular Weight: 280.36

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 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:

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