

Product Name: ARN 14494

Catalog No.: 7134

Batch No.: 1

CAS Number: 1037834-43-7

IUPAC Name: *rel*-1-[1-[2-[(3*aR*,6*aS*)-Hexahydrocyclopenta[*c*]pyrrol-2(1*H*)-yl]-2-oxoethyl]-4-piperidinyl]-2,3-dihydro-*N*-methyl-2-oxo-1*H*-indole-5-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₃₂N₄O₃·½H₂O

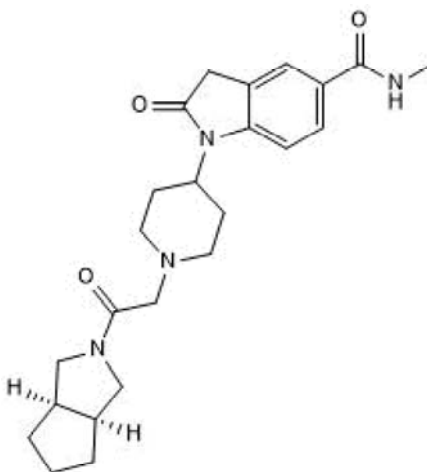
Batch Molecular Weight: 433.56

Physical Appearance: Pale pink solid

Solubility: DMSO to 5 mM
ethanol to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.49	7.67	12.92
Found	66.18	7.82	12.88

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Description:

ARN 14494 is a potent serine palmitoyltransferase inhibitor (IC₅₀ = 27.3 nM). ARN 14494 inhibits synthesis of long chain ceramides and dihydroceramides in an in vitro model of Alzheimer's disease. The compound prevents the synthesis of proinflammatory cytokines and the oxidative stress-related enzymes iNOS and COX-2 in mouse primary cortical astrocytes. ARN 14494 is neuroprotective against β-amyloid 1-42 induced neurotoxicity in primary cortical neurons co-cultured with astrocytes.

Physical and Chemical Properties:

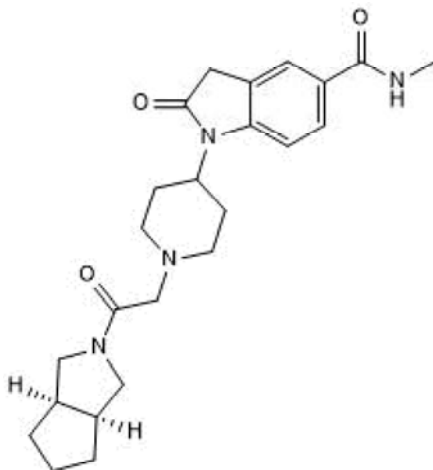
Batch Molecular Formula: C₂₄H₃₂N₄O₃·½H₂O

Batch Molecular Weight: 433.56

Physical Appearance: Pale pink solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 5 mM
ethanol to 50 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:

De Vita *et al* (2019) Inhibition of serine palmitoyltransferase by a small organic molecule promotes neuronal survival after astrocyte amyloid beta 1-42 injury. *ACS Chem.Neurosci.* **10** 1627. PMID: 30481470.

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