

Certificate of Analysis

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Product Name: SR 16584

Catalog No.: 4424

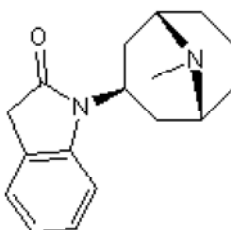
Batch No.: 2

CAS Number: 1150153-86-8

IUPAC Name: 1,3-Dihydro-1-(3-*exo*)-9-methyl-9-azabicyclo[3.3.1]non-3-yl]-2*H*-indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₂N₂O
Batch Molecular Weight: 270.37
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.52	8.2	10.36
Found	74.97	8.23	10.34

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

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Description:

Selective $\alpha 3\beta 4$ nAChR antagonist ($IC_{50} = 10.2 \mu M$). Selectively binds $\alpha 3\beta 4$ over $\alpha 4\beta 2$ and $\alpha 7$ subtypes (K_i values are 0.508, >100 and >100 μM , respectively).

Physical and Chemical Properties:

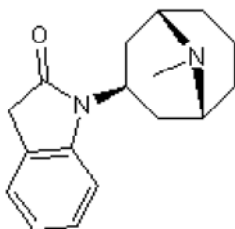
Batch Molecular Formula: $C_{17}H_{22}N_2O$

Batch Molecular Weight: 270.37

Physical Appearance: Off-white solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO 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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Zaveri *et al* (2012) Novel $\alpha 3\beta 4$ nicotinic acetylcholine receptor-selective ligands. Discovery, structure-activity studies, and pharmacological evaluation. *J.Med.Chem.* **53** 8187. PMID: 20979364.

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