



Certificate of Analysis

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Product Name: Atipamezole hydrochloride Catalog No.: 2937 Batch No.: 1

CAS Number: 104075-48-1

IUPAC Name: 5-(2-Ethyl-2,3-dihydro-1*H*-indene-2-yl)-1*H*-imidazole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₆N₂.HCl

Batch Molecular Weight: 248.75

Physical Appearance: Off-white solid

Solubility: water to 100 mM

DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 67.6 6.89 11.26

Found 67.28 6.84 11.28



Product Information

Print Date: Mar 14th 2022

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CAS Number: 104075-48-1

IUPAC Name: 5-(2-Ethyl-2,3-dihydro-1*H*-indene-2-yl)-1*H*-imidazole hydrochloride

Description:

Atipamezole hydrochloride is a selective α_2 -adrenergic receptor antagonist (K_i values are 1.1, 1.0, 0.89, 1300 and 6500 nM for $\alpha_{2A},~\alpha_{2B},~\alpha_{2C},~\alpha_{1A}~$ and $~\alpha_{1B}~$ receptors respectively). Brain penetrant.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₄H₁₆N₂.HCl

Batch Molecular Weight: 248.75 Physical Appearance: Off-white solid

Minimum Purity: ≥99%

Batch Molecular Structure:

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM 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°C water bath).

Catalog No.: 2937

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:

Jurgens et al (2007) α_{2A} adrenergic receptor activation inhibits epileptiform activity in the rat hippocampal CA3 region. Mol.Pharmacol. **71** 1572. PMID: 17341653.

Puurunen *et al* (2001) An α_2 -adrenergic antagonist, atipamezole, facilitates behavioral recovery after focal cerebral ischemia in rats. Neuropharmacology *40* 597. PMID: 11249969.

Virtanen *et al* (1989) Highly selective and specific antagonism of central and peripheral alpha 2-adrenoceptors by atipamezole. Arch.Int.Pharmacodyn.Ther. **297** 190. PMID: 2567152.