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Certificate of Analysis

Print Date: Jan 15th 2016

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Product Name: ANR 94

Catalog No.: 3937 Batch No.: 1

CAS Number: 634924-89-3 IUPAC Name: 8-Ethoxy-9-ethyl-9*H*-purin-6-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₉H₁₃N₅O 207.23 Off-white solid DMSO to 50 mM ethanol to 100 mM Store at RT

 NH_2 -OEt

2. ANALYTICAL DATA

Storage:

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.43 (Chloroform:Methanol [9:1]) Shows 100% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	52.16	6.32	33.79
Found	52.16	6.22	33.87

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

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Description:

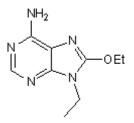
Adenosine A_{2A} receptor (AA_{2A}R) antagonist (K_i values are 643 and 46 nM for rat and human AA_{2A}Rs respectively). Most active AA_{2A}R antagonist for human receptors. Displays activity in the treatment of Parkinson's disease in vivo; improves parkinsonian motor deficits and tremors. Exhibits neuroprotective and anti-inflammatory effects.

Physical and Chemical Properties:

Batch Molecular Formula: C₉H₁₃N₅O Batch Molecular Weight: 207.23 Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info: DMSO to 50 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:

Pinna *et al* (2010) A new ethyladenine antagonist of adenosine A_{2A} receptors: Behavioral and biochemical characterization as an antiparkinsonian drug. Neuropharmacology **58** 613. PMID: 19951715.

Volpini *et al* (2010) Adenosine A_{2A} receptor antagonists: New 8-substituted 9-ethyladenines as tools for in vivo rat models of Parkinson's disease. Chem.Med.Chem. **4** 1010.

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