



Certificate of Analysis

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Product Name: HEMADO Catalog No.: 1579 Batch No.: 1

CAS Number: 403842-38-6

IUPAC Name: 2-(1-Hexynyl)-N-methyladenosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{23}N_5O_4$. ³/₄H₂O

Batch Molecular Weight: 374.91 **Physical Appearance:** White solid

Solubility: ethanol to 100 mM

DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.18$ (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

Melting Point: At 160°C

HPLC: Shows >99.8% purity

1H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 54.46 6.59 18.68 Found 54.67 6.24 18.52



Product Information

Print Date: Jan 15th 2016

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CAS Number: 403842-38-6

IUPAC Name: 2-(1-Hexynyl)-N-methyladenosine

Description:

High affinity and selective adenosine A_3 receptor agonist (K_i values are 1.1, 327, 1230 and > 30,000 nM for human A_3 , A_1 , A_{2A} and A_{2B} receptors respectively).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{17}H_{23}N_5O_4.$ $^3/_4H_2O$

Batch Molecular Weight: 374.91 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:

ethanol 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).

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:

Volpini *et al* (2002) N⁶-Alkyl-2-alkynyl derivatives of adenosine as potent and selective agonists at the human adenosine A₃ receptor and a starting point for searching A_{2B} ligands J.Med.Chem. *45* 3271. PMID: 12109910.

Klotz *et al* (2006) [3H]HEMADO- a novel tritated agonist selective for the human adenosine A₃-receptor. Eur.J.Pharmacol. *556* 14. PMID: 17126322.