

Certificate of Analysis

Print Date: Jan 15th 2016

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Product Name: MMPX Catalog No.: 0552 Batch No.: 1

CAS Number: 78033-08-6

IUPAC Name: 8-Methoxymethyl-3-isobutyl-1-methylxanthine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_{18}N_4O_3.0.67H_2O$

Batch Molecular Weight: 278.3102 **Physical Appearance:** White solid

Solubility: ethanol to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.87$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point:

Between 192 - 193°C

1H NMR:

Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 51.77 7 20.13 Found 52.01 7.02 20.24



Product Information

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IUPAC Name: 8-Methoxymethyl-3-isobutyl-1-methylxanthine

Description:

Specific inhibitor of calmodulin-sensitive cyclic GMP

phosphodiesterase (IC₅₀ = $5.2 \mu M$).

Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

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:

Wells and Mille (1988) Methylxanthine inhibitors of phosphodiesterases. Methods Enzymol. 159 489. PMID: 2457788.

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