

## Certificate of Analysis

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**Product Name:** 1,3-Dipropyl-8-phenylxanthine

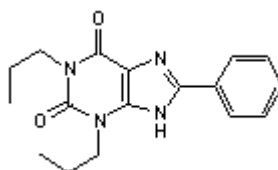
**Catalog No.:** 0486

**Batch No.:** 1

**CAS Number:** 85872-53-3

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 312.37  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 5 mM with gentle warming  
DMSO to 10 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Melting Point:** Between 245 - 247°C  
**HPLC:** Shows >98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.37	6.45	17.93
Found	65.12	6.42	17.74

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

## Product Information

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**Product Name:** 1,3-Dipropyl-8-phenylxanthine

**Catalog No.:** 0486

**Batch No.:** 1

**CAS Number:** 85872-53-3

**Description:**

Selective A<sub>1</sub> adenosine antagonist.

**Physical and Chemical Properties:**

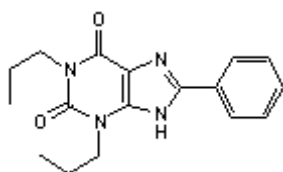
Batch Molecular Formula: C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>

Batch Molecular Weight: 312.37

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

ethanol to 5 mM with gentle warming

DMSO to 10 mM with gentle warming

**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:**

**Dal** (1985) 1,3-Dialkyl-8-(p-sulfofenyl)xanthines: potent water-soluble antagonists for A<sub>1</sub> and A<sub>2</sub> adenosine receptors. J.Med Chem. **28** 487. PMID: 2984420.

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