TOCRIS
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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **PU 02** **Catalog No.: 4700** **Batch No.: 1**

CAS Number: 313984-77-9

IUPAC Name: 6-[(1-Naphthalenylmethyl)thio]-9*H*-purine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{12}N_4S.¼H_2O$

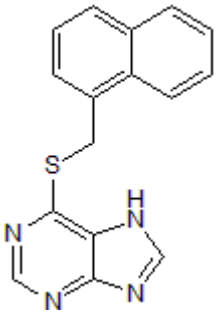
Batch Molecular Weight: 296.86

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.4% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.74	4.24	18.87
Found	64.75	4.01	18.93

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CAS Number: 313984-77-9

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Description:

Negative allosteric modulator of 5-HT_3 receptors (IC_{50} values are 0.36 and 0.73 µM in HEK293 cells transfected with human 5-HT_{3A} and 5-HT_{3AB} receptors respectively).

Physical and Chemical Properties:

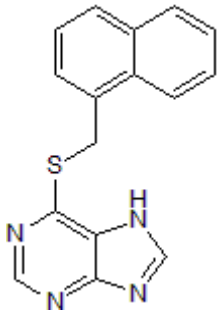
Batch Molecular Formula: $C_{16}H_{12}N_4S.¼H_2O$

Batch Molecular Weight: 296.86

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Trattnig *et al* (2012) Discovery of a novel allosteric modulator of 5-HT_3 receptors: inhibition and potentiation of Cys-loop receptor signaling through a conserved transmembrane intersubunit site. J.Biol.Chem. ***287*** 25241. PMID: 22589534.