

**Product Name:** PSB 603

**Catalog No.:** 3198

**Batch No.:** 4

CAS Number: 1092351-10-4

IUPAC Name: 8-[4-[4-(4-Chlorophenyl)piperazine-1-sulfonyl]phenyl]-1-propylxanthine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>25</sub>ClN<sub>6</sub>O<sub>4</sub>S·½H<sub>2</sub>O

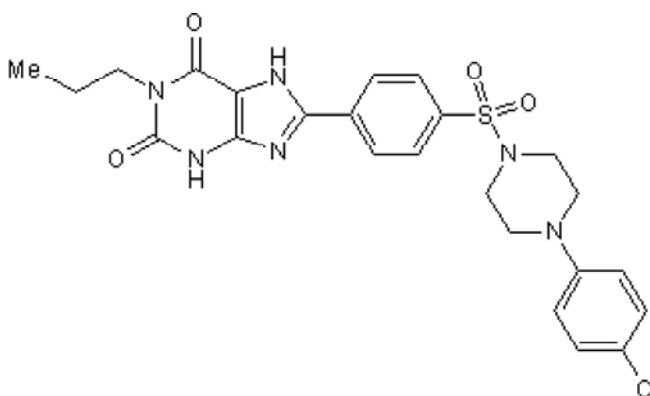
**Batch Molecular Weight:** 533.51

**Physical Appearance:** Off White solid

**Solubility:** DMSO to 50 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.03	4.82	15.75
Found	53.95	4.74	15.62

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

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**Description:**

PSB 603 is an adenosine A<sub>2B</sub> receptor antagonist that displays > 17000-fold selectivity over other adenosine receptors (K<sub>i</sub> values are 0.553, > 10000, > 10000 and > 10000 nM for A<sub>2B</sub>, A<sub>1</sub>, A<sub>2A</sub> and A<sub>3</sub> receptors respectively).

**Physical and Chemical Properties:**

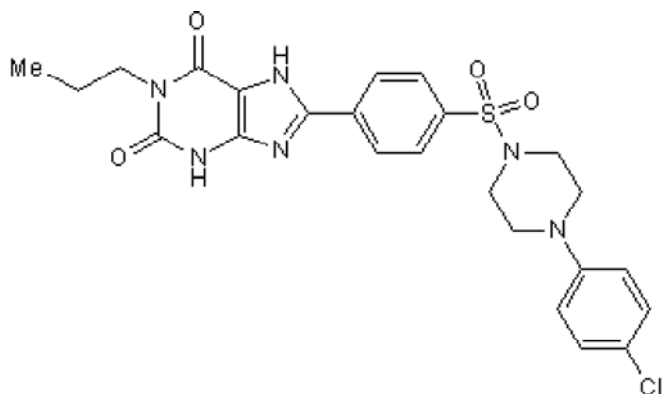
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Batch Molecular Weight: 533.51

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 50 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:**

**Borrmann et al** (2009) 1-alkyl-8-(piperazine-1-sulfonyl)phenylxanthines: development and characterization of adenosine A<sub>2B</sub> receptor antagonists and a new radioligand with subnanomolar affinity and subtype specificity. *J.Med.Chem.* **52** 3994. PMID: 19569717.

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