Product Name: PSB 36  
Catalog No.: 2019  
Batch No.: 1  
CAS Number: 524944-72-7  
IUPAC Name: 1-Butyl-8-(hexahydro-2,5-methanopentalen-3a(1H)-yl)-3,7-dihydro-3-(3-hydroxypropyl)-1H-purine-2,6-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: C_{21}H_{30}N_{4}O_{3}
- Batch Molecular Weight: 386.49
- Physical Appearance: Pale yellow solid
- Solubility: DMSO to 100 mM, ethanol to 100 mM
- Storage: Desiccate at +4°C
- Batch Molecular Structure:

![Molecular Structure Diagram]

2. ANALYTICAL DATA

- TLC: R_f = 0.54 (Ethyl acetate)
- HPLC: Shows 99.1% purity
- ^1H NMR: Consistent with structure
- Mass Spectrum: Consistent with structure
- Microanalysis:

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Potent and selective A1 adenosine receptor antagonist. Displays binding affinities of 0.12, 187, 552, 6500 and 2300 nM for rA1, hA2A, rA2B, rA1 and hA3 receptors respectively. Demonstrates greater selectivity than DPCPX (Cat. No. 0439).

Physical and Chemical Properties:
Batch Molecular Formula: C21H30N4O3
Batch Molecular Weight: 386.49
Physical Appearance: Pale yellow solid

Minimum Purity: >99%

Storage: Desiccate at +4°C

Solubility & Usage Info:
DMSO to 100 mM
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: