1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{22}H_{27}N_7O_2\cdot{\frac{1}{2}}H_2O \)

Batch Molecular Weight: 430.51

Physical Appearance: Yellow solid

Solubility: 1eq. HCl to 100 mM
DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.55 \) (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.3% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 61.38 6.56 22.77

Found 61.7 6.52 22.94
Product Name: TC-G 1004
Catalog No.: 4407
Batch No.: 1

**Product Information**

**CAS Number:** 1061747-72-5  
**IUPAC Name:** N-[2-(3,5-Dimethyl-1H-pyrazol-1-yl)-6-[6-(4-methoxy-1-piperidinyl)-2-pyridinyl]-4-pyrimidinyl]acetamide

**Description:**
Potent antagonist of adenosine A2A receptors; displays >100-fold selectivity for A2A over A1 receptors (Kᵢ values are 0.44 and 85 nM respectively). Potentiates L-DOPA-induced rotational behavior in 6-OHDA-lesioned rats.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₂H₂₇N₇O₅·½H₂O  
- **Batch Molecular Weight:** 430.51  
- **Physical Appearance:** Yellow solid

**Storage:** Store at -20°C

**Solubility & Usage Info:**
- 1eq. HCl to 100 mM  
- 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:**

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