1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C_{23}H_{17}Cl_{2}N_{5}O_{4}.H_{2}O  
**Batch Molecular Weight:** 516.34  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

**HPLC:** Shows 98.3% purity  
**¹H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:** Carbon Hydrogen Nitrogen  
   - Theoretical: 53.5 3.71 13.56  
   - Found: 53.22 3.67 13.5
Product Name: TC-S 7004
Catalog No.: 5088  Batch No.: 1

Description:
Potent and selective DYRK1A/B inhibitor (IC₅₀ values are 22 and 68 nM respectively). Selective for DYRK1A/B over a panel of other kinases. Reduces accumulation of quiescent Panc1 pancreatic cancer cells in G₀ under serum free conditions. Also induces DNA damage and apoptosis in quiescent Panc1 cells.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₂H₁₇Cl₂N₅O₇.H₂O
Batch Molecular Weight: 516.34
Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:
DMSO 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: