

**Product Name:** TC-S 7004

**Catalog No.:** 5088

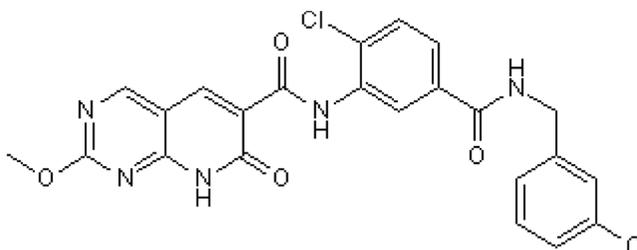
**Batch No.:** 2

CAS Number: 1386979-55-0

IUPAC Name: *N*-[2-Chloro-5-[[[(3-chlorophenyl)methyl]amino]carbonyl]phenyl]-7,8-dihydro-2-methoxy-7-oxopyrido[2,3-*d*]pyrimidine-6-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>23</sub> H <sub>17</sub> Cl <sub>2</sub> N <sub>5</sub> O <sub>4</sub>
<b>Batch Molecular Weight:</b>	498.32
<b>Physical Appearance:</b>	Off White solid
<b>Solubility:</b>	DMSO to 10 mM
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 98.7% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>Microanalysis:</b>	

	Carbon	Hydrogen	Nitrogen
Theoretical	55.44	3.44	14.05
Found	55.34	3.4	14.04

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

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**Description:**

TC-S 7004 is a potent and selective DYRK1A/B inhibitor (IC<sub>50</sub> 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 G<sub>0</sub> under serum free conditions. Also induces DNA damage and apoptosis in quiescent Panc1 cells.

**Physical and Chemical Properties:**

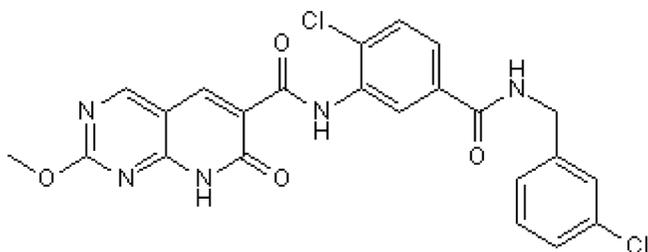
Batch Molecular Formula: C<sub>23</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>5</sub>O<sub>4</sub>

Batch Molecular Weight: 498.32

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 10 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Anderson et al** (2013) Pyrido[2,3-*d*]pyrimidines: discovery and preliminary SAR of a novel series of DYRK1B and DYRK1A inhibitors. *Bioorg.Med.Chem.Lett.* **15** 6610. PMID: 24239188.

**Ewton et al** (2011) Inactivation of mirk/dyrk1b kinase targets quiescent pancreatic cancer cells. *Mol.Cancer Ther.* **10** 2104. PMID: 21878655.

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