

**Product Name:** PZ 3022

**Catalog No.:** 7876

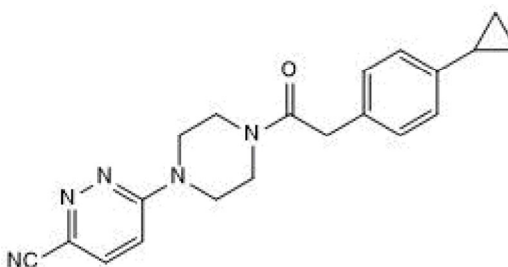
**Batch No.:** 1

CAS Number: 2170608-85-0

IUPAC Name: 6-[4-[2-(4-Cyclopropylphenyl)acetyl]-1-piperazinyl]-3-pyridazinecarbonitrile

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>21</sub>N<sub>5</sub>O  
**Batch Molecular Weight:** 347.42  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.14	6.09	20.16
Found	69.17	6.09	19.94

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

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**Description:**

PZ 3022 is a potent allosteric pantothenate kinase (Pank) activator ( $EC_{50}$ =5.3 nM for Pank3). In a mouse model of propionic acidemia, treatment with PZ 3022 increases hepatic CoASH and C2-CoA, and decreases C3-CoA, improving intracellular C3:C2-CoA ratio and plasma C3:C2-carnitine ratios. PZ 3022 is orally bioavailable.

**Physical and Chemical Properties:**

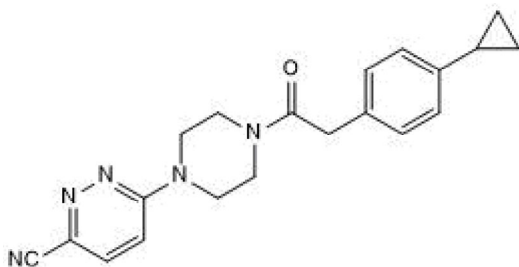
Batch Molecular Formula: C<sub>20</sub>H<sub>21</sub>N<sub>5</sub>O

Batch Molecular Weight: 347.42

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Subramanian et al** (2021) Pantothenate kinase activation relieves coenzyme A sequestration and improves mitochondrial function in mice with propionic acidemia. *Sci.Transl.Med.* **13** eabf5965. PMID: 34524863.

**Storage:** Store at -20°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. \*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.

**Licensing Information:**

Sold under license from St. Jude Children's Research Hospital

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