

**Product Name:** Dynapyrazole A

**Catalog No.:** 6896

**Batch No.:** 1

CAS Number: 2226517-75-3

IUPAC Name: 2-[1-(4-Chlorophenyl)cyclopropyl]-4,5-dihydro-7-iodo-5-oxopyrazolo[1,5-a]quinazoline-3-carbonitrile

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>12</sub>ClIN<sub>4</sub>O.¾H<sub>2</sub>O

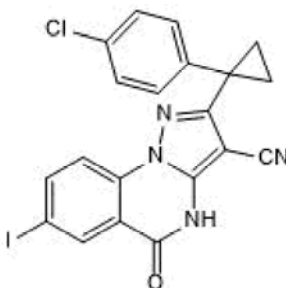
**Batch Molecular Weight:** 500.21

**Physical Appearance:** White solid

**Solubility:** DMSO to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	48.02	2.72	11.2
Found	47.7	2.73	11.16

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

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**Description:**

Dynein inhibitor. Inhibits dynein 1 and dynein 2-dependent microtubule gliding (IC<sub>50</sub> values are 2.3 and 2.6 μM, respectively). Inhibits hedgehog signaling in vitro (IC<sub>50</sub> = 1.9 μM). Displays reversible inhibition of retrograde and anterograde intraflagellar transport in *Chlamydomonas*; displays stronger inhibition of retrograde transport.

**Physical and Chemical Properties:**

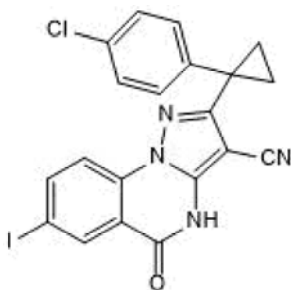
Batch Molecular Formula: C<sub>20</sub>H<sub>12</sub>ClIN<sub>4</sub>O. $\frac{3}{4}$ H<sub>2</sub>O

Batch Molecular Weight: 500.21

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 20 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:**

Steinman *et al* (2017) Chemical structure-guided design of dynapyrazoles, cell-permeable dynein inhibitors with a unique mode of action. *Elife* **6** e25174. PMID: 28524820.

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