

**Product Name:** KH-4-43

**Catalog No.:** 8091

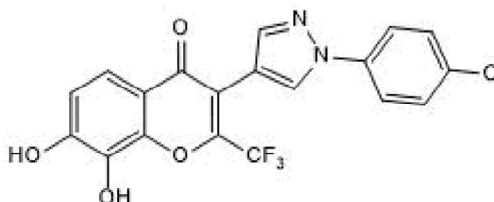
**Batch No.:** 1

CAS Number: 2813310-07-3

IUPAC Name: 3-[1-(4-Chlorophenyl)-1H-pyrazol-4-yl]-7,8-dihydroxy-2-(trifluoromethyl)-4H-1-benzopyran-4-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>10</sub>ClF<sub>3</sub>N<sub>2</sub>O<sub>4</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O  
**Batch Molecular Weight:** 436.25  
**Physical Appearance:** Off White solid  
**Solubility:** ethanol to 20 mM with gentle warming  
DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	52.31	2.66	6.42
Found	51.91	2.41	6.33

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

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**Description:**

KH-4-43 is a selective CUL4 inhibitor (K<sub>d</sub> = 83 nM). KH-4-43 inhibits the ubiquitination of CK1 $\alpha$  by CRL4CRBN in vitro. Treatment of cells with KH-4-43 causes accumulation of the E3 CRL4 substrate CDT1. KH-4-43 suppresses the growth of human tumor xenografts in mice.

**Physical and Chemical Properties:**

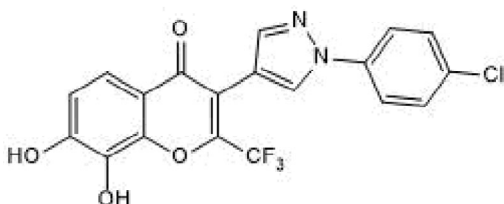
Batch Molecular Formula: C<sub>19</sub>H<sub>10</sub>ClF<sub>3</sub>N<sub>2</sub>O<sub>4</sub>· $\frac{3}{4}$ H<sub>2</sub>O

Batch Molecular Weight: 436.25

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

ethanol to 20 mM with gentle warming

DMSO to 50 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 Icahn School of Medicine at Mount Sinai.

**References:**

**Wu et al** (2021) Inhibitors of cullin-RING E3 ubiquitin ligase 4 with antitumor potential. Proc.Natl.Acad.Sci.U.S.A. **118** e2007328118. PMID: 33602808.

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