

## Certificate of Analysis

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**Product Name:** EN 219

**Catalog No.:** 7476

**Batch No.:** 1

CAS Number: 380351-29-1

IUPAC Name: 1-[3,5-bis(4-Bromophenyl)-4,5-dihydro-1H-pyrazol-1-yl]-2-chloroethanone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>13</sub>Br<sub>2</sub>ClN<sub>2</sub>O

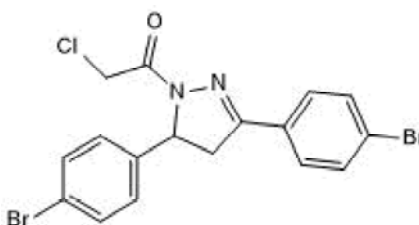
**Batch Molecular Weight:** 456.56

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.6% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	44.72	2.87	6.14
Found	45	2.89	6.07

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

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**Description:**

EN 219 is a covalent RNF114 inhibitor (IC<sub>50</sub> = 470 nM). In vitro EN 219 mimics the mechanism of action of Nimbolide (Cat. No. 7289) by binding to RNF114 and inhibiting ubiquitination of its endogenous substrate, the tumor suppressor p21.

**Physical and Chemical Properties:**

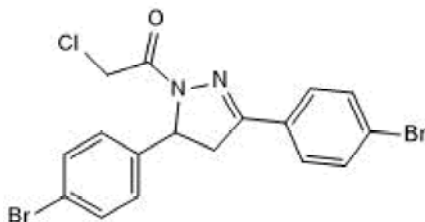
Batch Molecular Formula: C<sub>17</sub>H<sub>13</sub>Br<sub>2</sub>ClN<sub>2</sub>O

Batch Molecular Weight: 456.56

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

Luo *et al* (2021) Chemoproteomics-enabled discovery of covalent RNF114-based degraders that mimic natural product function. *Cell Chem.Biol.* **28** 559. PMID: 33513350.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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.

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