

**Product Name:** FMK 9a

**Catalog No.:** 7496

**Batch No.:** 1

CAS Number: 1955550-51-2

IUPAC Name: *N*-[(1*S*)-2-[(3-Fluoro-2-oxopropyl)amino]-2-oxo-1-(phenylmethyl)ethyl]-1-naphthalenecarboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>21</sub>FN<sub>2</sub>O<sub>3</sub>·¼H<sub>2</sub>O

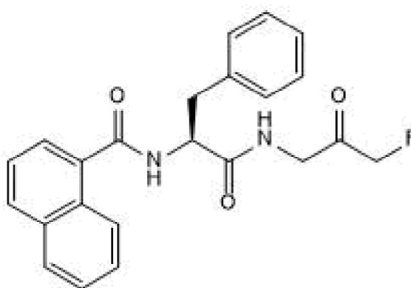
**Batch Molecular Weight:** 396.93

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 93.7% purity

**Chiral HPLC:** Shows 100% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.6	5.46	7.06
Found	68.78	5.43	6.98

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

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**Description:**

FMK 9a is a potent ATG4B/autophagin-1 inhibitor (IC<sub>50</sub> values are 73 nM and 80 nM in cell-based LRA and TR-FRET assays, respectively). Also inhibits calpain and cathepsin B (IC<sub>50</sub> values are 96 nM and 200 nM, respectively).

**Physical and Chemical Properties:**

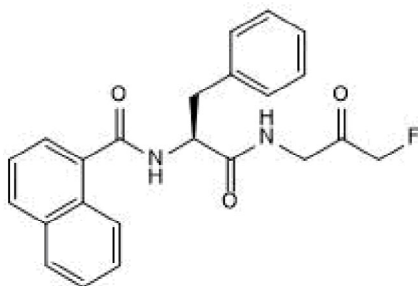
Batch Molecular Formula: C<sub>23</sub>H<sub>21</sub>FN<sub>2</sub>O<sub>3</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 396.93

Physical Appearance: White solid

**Minimum Purity:** ≥90%

**Batch Molecular Structure:**



**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.

**References:**

Qiu *et al* (2016) Discovery of fluoromethylketone-based peptidomimetics as covalent ATG4B (autophagin-1) inhibitors. ACS Med.Chem.Lett. 7 802. PMID: 27563406.

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