

Product Name: LC 2

Catalog No.: 7420

Batch No.: 1

CAS Number: 2502156-03-6

IUPAC Name: (2*S*,4*R*)-1-((*S*)-2-(3-(3-((*S*)-2-(((7-(8-Chloronaphthalen-1-yl)-4-((*S*)-3-(cyanomethyl)-4-(2-fluoroacryloyl)piperazin-1-yl)-5,6,7,8-tetrahydropyrido[3,4-*d*]pyrimidin-2-yl)oxy)methyl)pyrrolidin-1-yl)propoxy)propanamido)-3,3-dimethylbutanoyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₉H₇₁ClFN₁₁O₇S.2H₂O

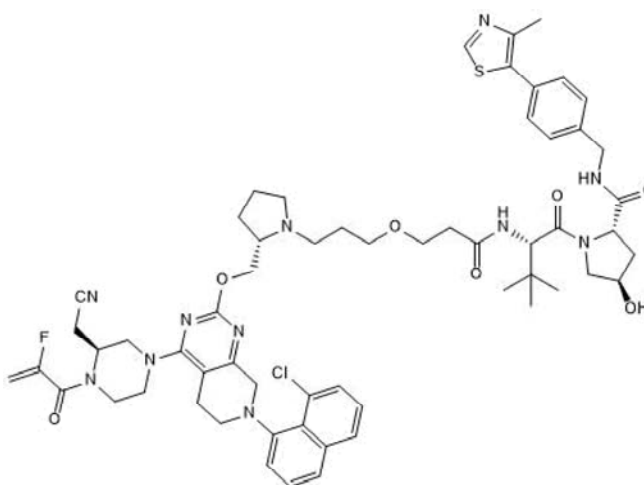
Batch Molecular Weight: 1168.83

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 94.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.63	6.47	13.18
Found	60.2	6.4	13.02

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

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Description:

LC 2 is a mutant-selective PROTAC[®] Degradator of KRAS, comprising a ligand for the von Hippel Lindau E3 ligase joined to the KRAS inhibitor MRTX849. LC 2 induces selective degradation of KRAS^{G12C} in cancer cell lines without inducing degradation of any other mutants (DC₅₀ = 0.25-0.76 μM), leading to suppression of MAPK signaling and modulation of ERK signaling in both homozygous and heterozygous KRAS^{G12C} cancer cell lines. LC 2 inhibits phosphorylation of ERK in SW1573 cell lines. Negative control LC 2 Epimer (Cat. No. 7421) also available. PROTAC[®] is a registered trademark of Arvinas Operations, Inc., and is used under licen... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

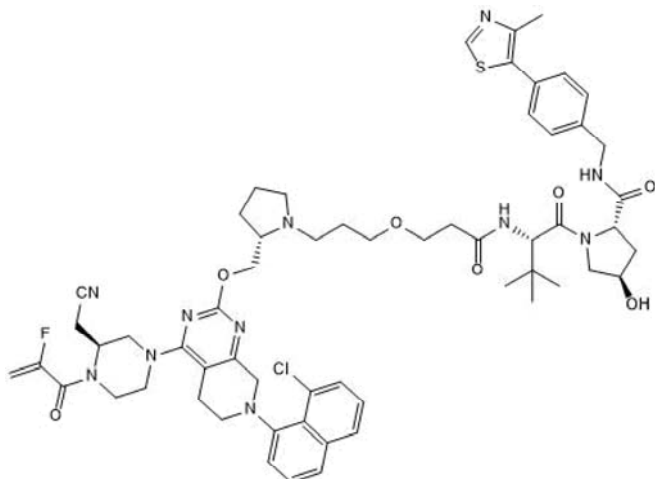
Batch Molecular Formula: C₅₉H₇₁ClFN₁₁O₇S.2H₂O

Batch Molecular Weight: 1168.83

Physical Appearance: White solid

Minimum Purity: ≥95%

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. 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:

- Bond et al (2020)** Targeted degradation of oncogenic KRAS^{G12C} by VHL-recruiting PROTACs. *ACS Cent.Sci.* **6** 1367. PMID: 32875077.
De Vita et al (2020) The missing link between (un)druggable and degradable KRAS. *ACS Cent.Sci.* **6** 1281. PMID: 32875070.

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