

**Product Name:** ARCC 4

**Catalog No.:** 7254

**Batch No.:** 1

CAS Number: 1973403-00-7

IUPAC Name: (2*S*,4*R*)-1-((*S*)-2-(2-(4-((4'-(3-(4-Cyano-3-(trifluoromethyl)phenyl)-5,5-dimethyl-4-oxo-2-thioxoimidazolidin-1-yl)-[1,1'-biphenyl]-4-yl)oxy)butoxy)acetamido)-3,3-dimethylbutanoyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>53</sub>H<sub>56</sub>F<sub>3</sub>N<sub>7</sub>O<sub>7</sub>S<sub>2</sub>.H<sub>2</sub>O

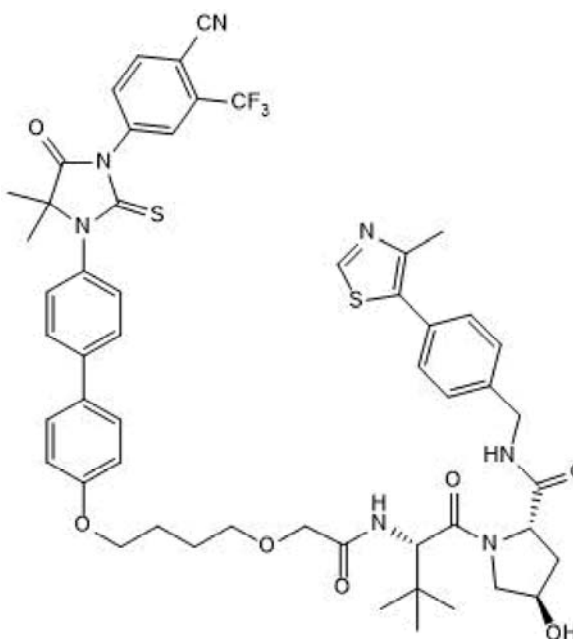
**Batch Molecular Weight:** 1042.2

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 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	61.08	5.61	9.41
Found	60.83	5.55	9.55

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

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**Description:**

Potent and selective androgen receptor (AR) PROTAC<sup>®</sup> Degradator (DC<sub>50</sub> = 5 nM). Comprises an androgen receptor antagonist, enzalutamide, joined by a linker to a VHL E3 ligase ligand. Brings about degradation of ARs in VCaP and LNCaP prostate cancer cell lines (D<sub>max</sub> = 98% at 12h) in a proteasome-dependent manner, and inhibits cell proliferation. Also degrades clinically relevant AR mutants expressed in HEK293T cells. Exhibits no significant effect on glucocorticoid, estrogen or progesterone receptors at concentrations inducing AR degradation. ARCC 4 negative control (Cat. No. 7255) also available. PROTAC<sup>®</sup> is a registered trademark o... Please see product datasheet on www.tocris.com for full description.

**Physical and Chemical Properties:**

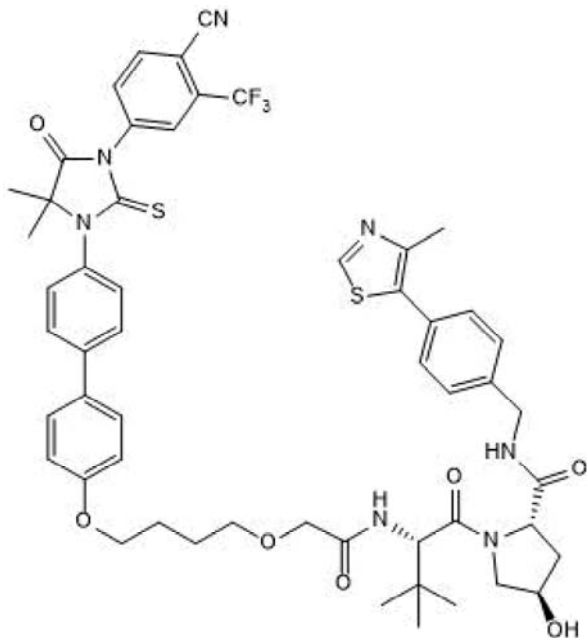
Batch Molecular Formula: C<sub>53</sub>H<sub>56</sub>F<sub>3</sub>N<sub>7</sub>O<sub>7</sub>S<sub>2</sub>.H<sub>2</sub>O

Batch Molecular Weight: 1042.2

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**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:**

Salami *et al* (2018) Androgen Receptor Degradation by Researchable Targeting Chimera ARCC 4 Enhances enzalutamide in cellular models of prostate cancer drug resistance. *Commun.Biol.* **1** 100. PMID: 30271980.

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