

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: C₅₃H₅₆F₃N₇O₇S₂.H₂O

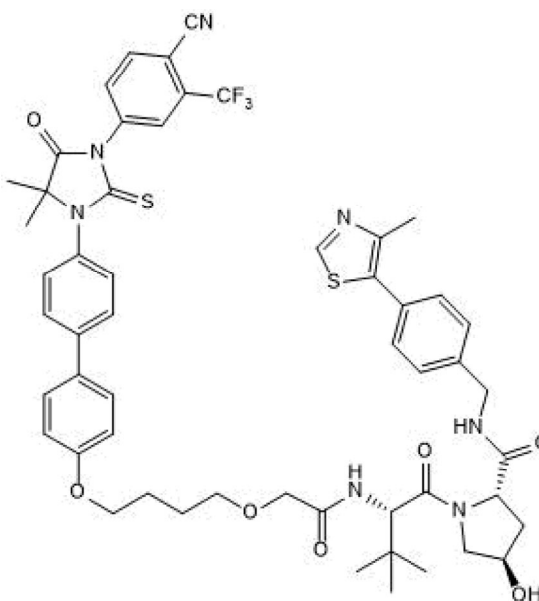
Batch Molecular Weight: 1042.2

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

¹H 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

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Description:

ARCC 4 is a potent and selective androgen receptor (AR) PROTAC[®] Degradator (DC₅₀ = 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_{max} = 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) and R/NR3C4 antibody validated for Simple Weste... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

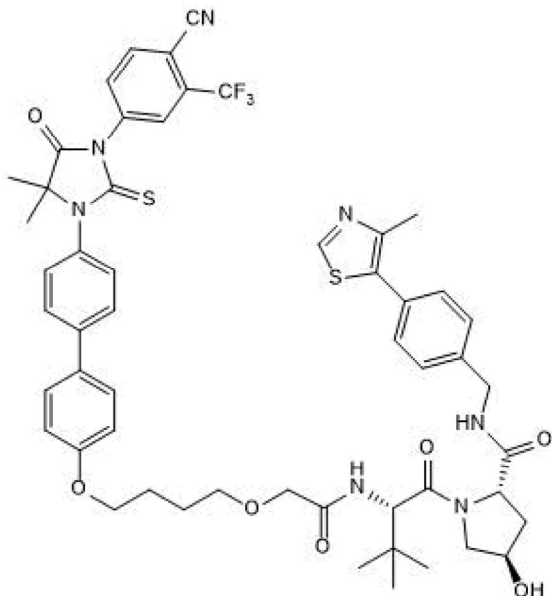
Batch Molecular Formula: C₅₃H₅₆F₃N₇O₇S₂.H₂O

Batch Molecular Weight: 1042.2

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Salami *et al* (2018) Androgen receptor degradation by the proteolysis-targeting chimera ARCC-4 outperforms enzalutamide in cellular models of prostate cancer drug resistance. *Commun Biol*. 1:100. PMID: 30271980

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