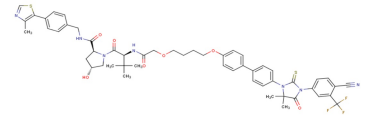


Data Sheet (Cat.No.T14318)

ARCC-4

Chemical Properties

CAS No.:	1973403-00-7
Formula:	C53H56F3N7O7S2
Molecular Weight:	1024.18
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	ARCC-4 is an enzalutamide-based von Hippel-Lindau (VHL)-recruiting AR PROTAC and outperforms enzalutamide and it is a low-nanomolar androgen receptor (AR) degrader based on PROTAC, with a DC50 of 5 nM. ARCC-4 effectively degrades clinically relevant AR mutants associated with antiandrogen therapy[1].
Targets(IC ₅₀)	VHL: None
In vitro	ARCC-4 selectively degrades AR via the proteasome but not PR-A or PR-B suppression[1] and it shows efficacy against clinically relevant AR mutations[1]. ARCC-4 maintains activity despite elevated androgen levels[1]. ARCC-4 enhances protein-protein interactions between AR and VHL, thereby promoting the association of the trimeric complex[1] and it induces apoptosis and inhibiting proliferation of AR-amplified prostate cancer cells[1]. ARCC-4 (0.1-10,000 nM; 20 hours) potently degrades AR with a D50 of 5 nM and Dmax of over 95%[1]. ARCC-4 (100 nM; 12 hours) shows near complete AR degradation (>98%) in prostate cancer cells[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.976 mL	4.882 mL	9.764 mL
5 mM	0.195 mL	0.976 mL	1.953 mL
10 mM	0.098 mL	0.488 mL	0.976 mL
50 mM	0.02 mL	0.098 mL	0.195 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Salami J, et al. Androgen receptor degradation by the proteolysis-targeting chimera ARCC-4 outperforms enzalutamide in cellular models of prostate cancer drug resistance. *Commun Biol.* 2018 Aug 2;1:100.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481