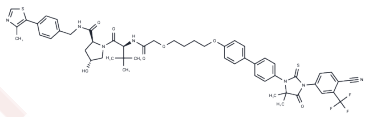
Data Sheet (Cat.No.T14318)

TargetMol

ARCC-4

Chemical Properties



CAS No. : 1973403-00-7

Formula: C53H56F3N7O7S2

Molecular Weight: 1024.18

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

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(IC50)	Androgen Receptor,PROTACs
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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9764 mL	4.882 mL	9.7639 mL
5 mM	0.1953 mL	0.9764 mL	1.9528 mL
10 mM	0.0976 mL	0.4882 mL	0.9764 mL
50 mM	0.0195 mL	0.0976 mL	0.1953 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481