

ARD-2585

Chemical Properties

CAS No. : 2757422-79-8

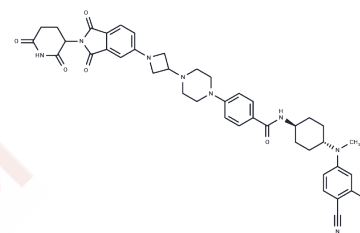
Formula: C₄₁H₄₃ClN₈O₅

Molecular Weight: 763.28

Keep away from direct sunlight

Storage: 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	ARD-2585 is an orally active and selective androgen receptor PROTAC degrader with anticancer activity for the study of prostate cancer.
Targets(IC50)	Androgen Receptor,PROTACs
In vitro	ARD-2585 is effective in reducing the AR protein level at the 3 and 24 h time-points by 78% and 60% at the 6 h time-point. ARD-2585 achieves picomolar DC50 values and >98% of Dmax in the VCaP cell line with a wild-type AR and in the LNCaP cell line carrying a T878A-mutated AR mutant. ARD-2585 potently inhibits cell growth with IC50 values of 1.5 nM and 16.2 nM in the VCaP and LNCaP AR+ prostate cancer cell lines. [1]
In vivo	At the end of the treatment (day 37), 20 and 40 mg/kg ARD-2585 inhibits tumor growth by 54.9, 74.3, and 65.9%. ARD-2585 effectively reduces AR protein the VCaP xenograft tumor tissue in mice and inhibits VCaP tumor growth. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (104.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 5 mg/mL (6.55 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3101 mL	6.5507 mL	13.1014 mL
5 mM	0.262 mL	1.3101 mL	2.6203 mL
10 mM	0.131 mL	0.6551 mL	1.3101 mL
50 mM	0.0262 mL	0.131 mL	0.262 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

Xiang W, et al. Discovery of ARD-2585 as an Exceptionally Potent and Orally Active PROTAC Degradator of Androgen Receptor for the Treatment of Advanced Prostate Cancer. *J Med Chem.* 2021 Sep 23;64(18):13487-13509.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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