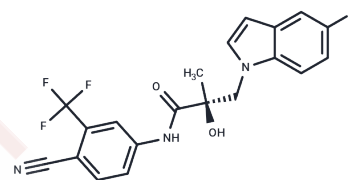


UT-155

## Chemical Properties

CAS No. : 2031161-35-8  
 Formula: C<sub>20</sub>H<sub>15</sub>F<sub>4</sub>N<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 405.35  
 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	UT-155 is a selective and potent antagonist of the androgen receptor (AR) with a binding affinity (K <sub>i</sub> ) of 267 nM for the AR ligand-binding domain (AR-LBD).
Targets(IC50)	Androgen Receptor
In vitro	UT-155 binds to the AR-LBD (K <sub>i</sub> : 267 nM) and potently inhibits R1881-induced wildtype AR transactivation with 6-10-fold higher potency than enzalutamide. While UT-155 antagonizes both wildtype and mutant ARs comparably, enzalutamide's efficacy is halved against the W742L mutant AR. In LNCaP cells, UT-155 inhibits PSA and FKBP5 gene expression induced by 0.1 nM R1881 at concentrations between 10 and 100 nM, demonstrating 5-10 times better efficacy than enzalutamide.
In vivo	Consistent with its anti-proliferative effects in vitro, UT-155 significantly inhibits the growth of 22RV1 xenografts by 53%, while enzalutamide has no effect. In UT-155-treated animals, tumor weights, PSA levels, and expression of AR and AR-SV are significantly reduced.

## Solubility Information

Solubility	H <sub>2</sub> O: < 0.1 mg/mL (insoluble), DMSO: 130 mg/mL (320.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.87 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

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.467 mL	12.335 mL	24.670 mL
5 mM	0.4934 mL	2.467 mL	4.934 mL
10 mM	0.2467 mL	1.2335 mL	2.467 mL
50 mM	0.0493 mL	0.2467 mL	0.4934 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

Ponnusamy S, et al. Novel Selective Agents for the Degradation of Androgen Receptor Variants to Treat Castration-Resistant Prostate Cancer. Cancer Res. 2017 Nov 15;77(22):6282-6298.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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:34 Washington Street,Wellesley Hills,MA 02481