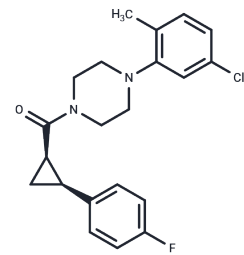


(+)-JJ-450

## Chemical Properties

CAS No. : 1998094-24-8  
 Formula: C<sub>21</sub>H<sub>22</sub>ClFN<sub>2</sub>O  
 Molecular Weight: 372.86  
 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	(+)-JJ-450 is a non-competitive antagonist that targets the androgen receptor (AR), inhibiting nuclear localization and transcriptional activity of AR under androgen-deprived conditions. In LN95 cells, (+)-JJ-450 is less effective than (-)-JJ-450 at inhibiting prostate-specific antigen (PSA) expression, likely due to its targeting of the AR ligand-binding domain (LBD). The compound works by promoting degradation of unbound AR within the nucleus and reducing AR binding to androgen response elements (AREs), thus inhibiting the transcriptional activity of AR and its splicing variants like ARv7. Additionally, (+)-JJ-450 is applicable for research in castration-resistant prostate cancer (CRPC) that is resistant to Enzalutamide (MDV3100).
Targets(IC50)	Androgen Receptor, Prostaglandin Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.682 mL	13.4099 mL	26.8197 mL
5 mM	0.5364 mL	2.682 mL	5.3639 mL
10 mM	0.2682 mL	1.341 mL	2.682 mL
50 mM	0.0536 mL	0.2682 mL	0.5364 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.

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

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

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