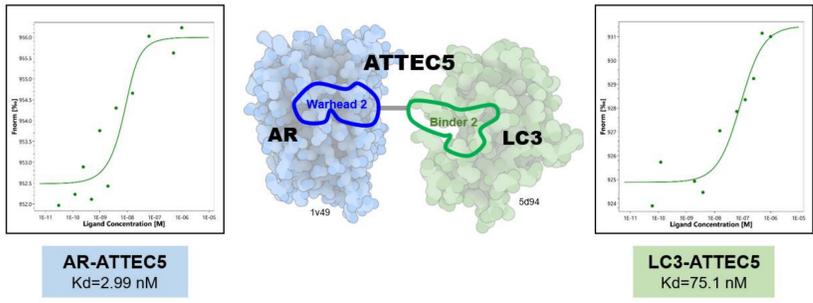
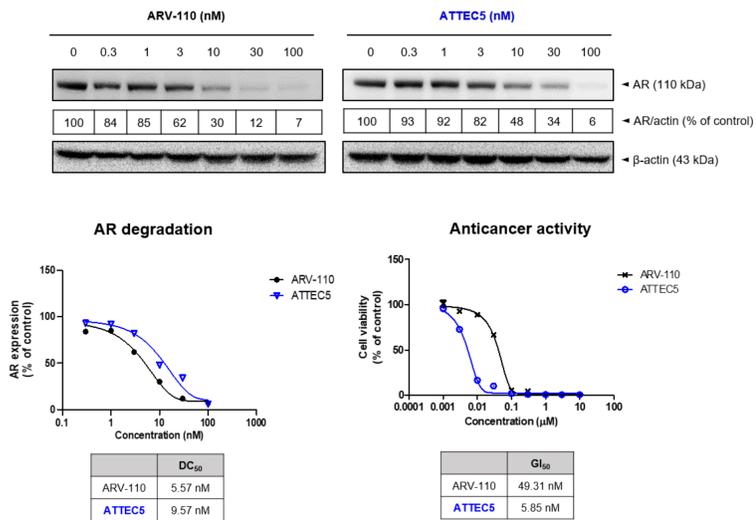


# Discovery of AR-targeting ATTEC compounds for treating prostate cancer

Korea Research Institute of Chemical Technology /  
Therapeutics & Biotechnology Division

<b>Disease Area</b>	<b>Cancer</b>												
<b>Product Type</b>	Small molecule (ATTEC, TPD compound)												
<b>Indication</b>	Prostate cancer												
<b>Target</b>	Androgen receptor												
<b>Mechanism of Action</b>	AR-ATTEC tethers AR protein to autophagosome through its interaction with LC3, it is directed for autophagic degradation of target protein.												
<b>Competitiveness</b>	Compounds that can treat resistant prostate cancer to existing therapies using autophagy system.												
<b>Development Stage</b>	<b>Hit compound (ATTEC5)</b>												
<b>Route of Administration</b>	Oral												
<b>Key Data</b>	<p><b>1. Binding affinity of AR-ATTEC (ATTEC5)</b></p>  <p><b>2. Strong anticancer activity and AR degradation of ATTEC5 compared to PROTAC</b></p>  <table border="1"> <thead> <tr> <th>Compound</th> <th>DC<sub>50</sub></th> </tr> </thead> <tbody> <tr> <td>ARV-110</td> <td>5.57 nM</td> </tr> <tr> <td>ATTEC5</td> <td>9.57 nM</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Compound</th> <th>GI<sub>50</sub></th> </tr> </thead> <tbody> <tr> <td>ARV-110</td> <td>49.31 nM</td> </tr> <tr> <td>ATTEC5</td> <td>5.85 nM</td> </tr> </tbody> </table>	Compound	DC <sub>50</sub>	ARV-110	5.57 nM	ATTEC5	9.57 nM	Compound	GI <sub>50</sub>	ARV-110	49.31 nM	ATTEC5	5.85 nM
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