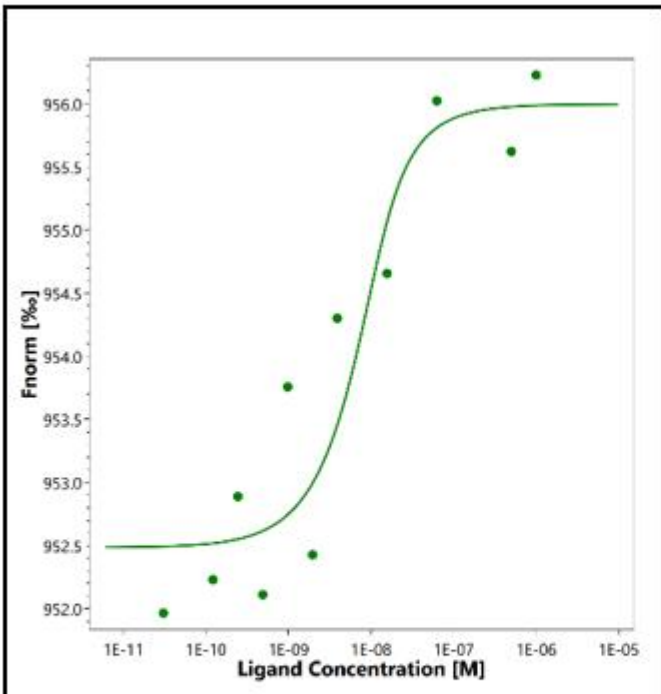
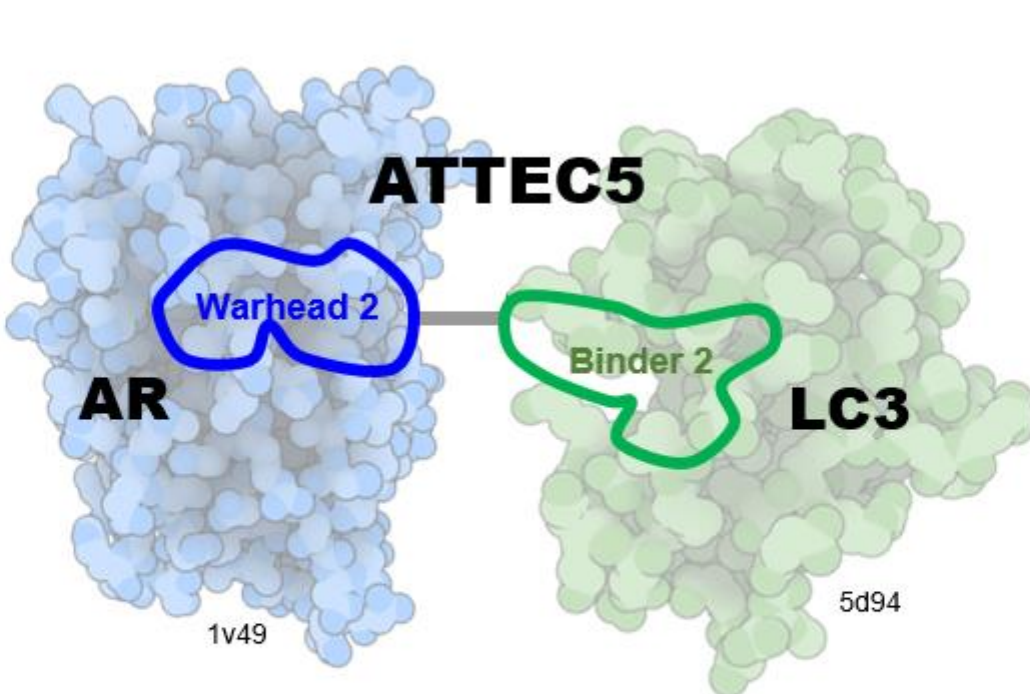
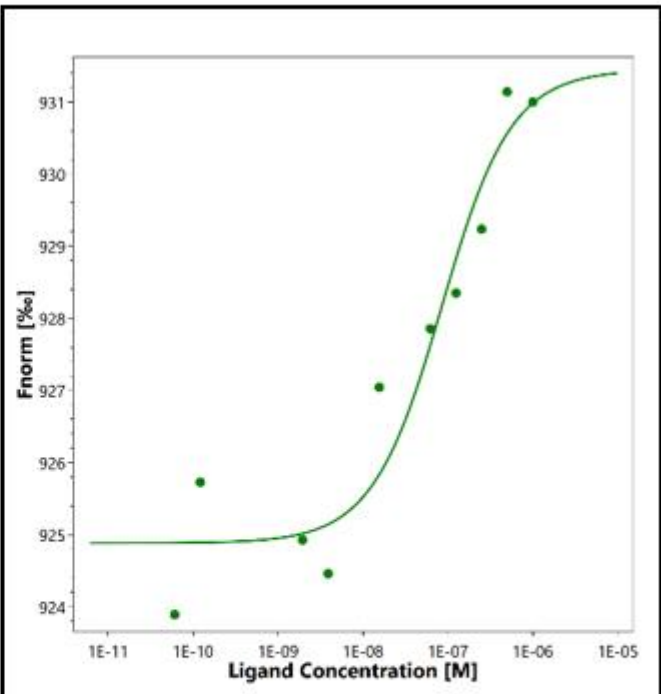
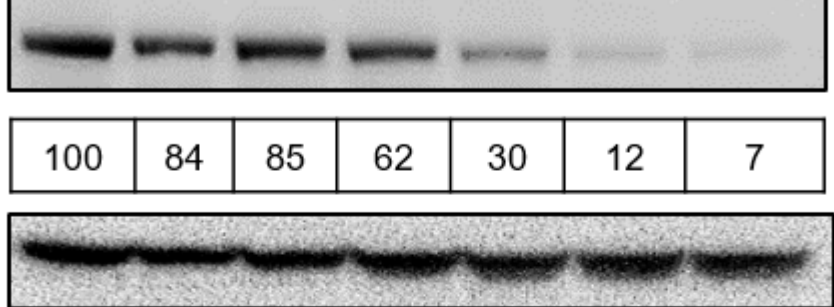

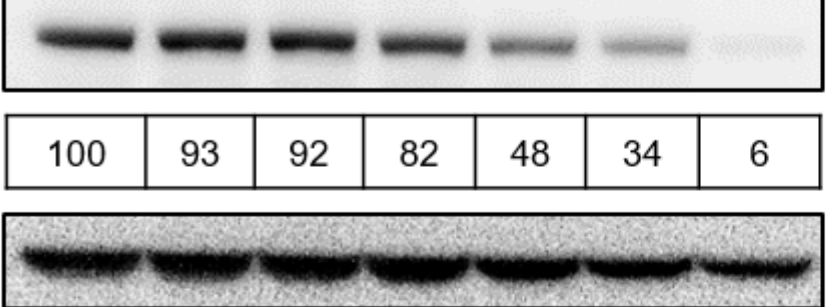

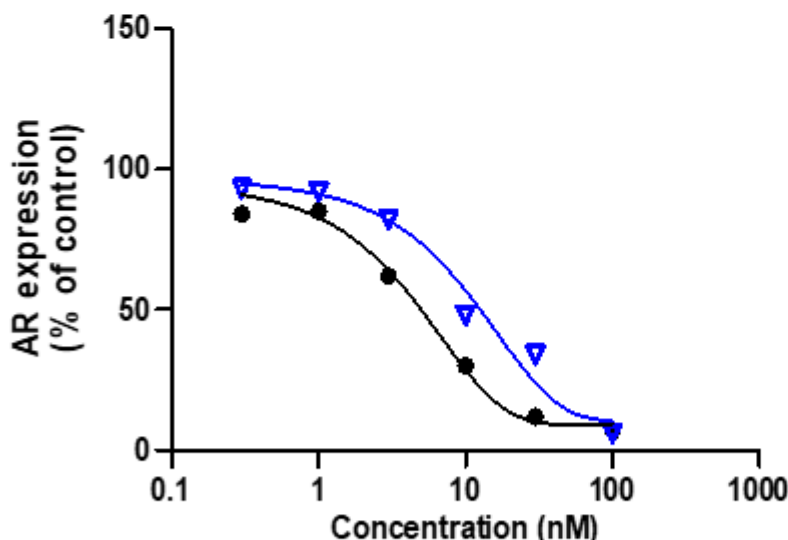
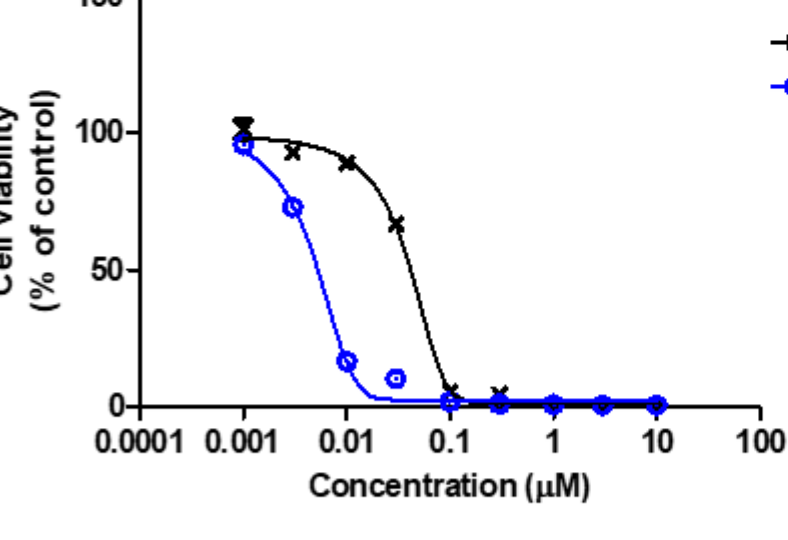


Discovery of AR-targeting ATTEC compounds for treating prostate cancer

Korea Research Institute of Chemical Technology /
Therapeutics & Biotechnology Division

Disease Area	Cancer												
Product Type	Small molecule (ATTEC, TPD compound)												
Indication	Prostate cancer												
Target	Androgen receptor												
Mechanism of Action	AR-ATTEC tethers AR protein to autophagosome through its interaction with LC3, it is directed for autophagic degradation of target protein.												
Competitiveness	Compounds that can treat resistant prostate cancer to existing therapies using autophagy system.												
Development Stage	Hit compound (ATTEC5)												
Route of Administration	Oral												
Key Data	<div>1. Binding affinity of AR-ATTEC (ATTEC5)<div><div><div>AR-ATTEC5 Kd=2.99 nM</div></div><div></div><div><div>LC3-ATTEC5 Kd=75.1 nM</div></div></div></div> <div>2. Strong anticancer activity and AR degradation of ATTEC5 compared to PROTAC<div><div><div><div>ARV-110 (nM)</div><div>00.3131030100</div><div></div><div>10084856230127</div><div></div></div><div><div>ATTEC5 (nM)</div><div>00.3131030100</div><div></div><div>10093928248346</div><div></div></div></div><div><div><div>AR degradation</div><div></div><div><table><tr><td></td><td>DC50</td></tr><tr><td>ARV-110</td><td>5.57 nM</td></tr><tr><td>ATTEC5</td><td>9.57 nM</td></tr></table></div></div><div><div>Anticancer activity</div><div></div><div><table><tr><td></td><td>GI50</td></tr><tr><td>ARV-110</td><td>49.31 nM</td></tr><tr><td>ATTEC5</td><td>5.85 nM</td></tr></table></div></div></div></div></div>		DC50	ARV-110	5.57 nM	ATTEC5	9.57 nM		GI50	ARV-110	49.31 nM	ATTEC5	5.85 nM
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ID	Be scheduled												