

The Comparison of PDC and ADC

Properties	PDC	ADC
Molecule weight	~ 2000-20,000 Da	>150,000 Da
Pharmacokinetic	A shorter half-life and undergoes rapid renal clearance with less toxicity to the bone marrow and liver	A longer half-life than PDCs and undergoes nonspecific liver and reticuloendothelial system uptake, leading to potential dose-limiting hepatotoxicity
Manufacture cost	Low, It can be expressed in situ or chemically synthesized for simple production and easy scale-up	High Relatively difficult to manufacture and costly to produce and qualify
Quality control complexity	Low homogeneity, simpler analytical methods	High heterogeneity, advanced analytical methods
Tumor penetration	Yes	Limited
Immunogenicity	Low	Some are high
Chemical synthesis	Yes	No
Cancer targets	Variety of targets located on cell surface (LRP1 receptor) or intracellular protein	Limited to cell surface receptors