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# Conjugation of paclitaxel to C-6 hexanediamine-modified hyaluronic acid for targeted drug delivery to enhance antitumor efficacy

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## Highlights

- Paclitaxel was chemically conjugated to the C-6 position of N-acetyl-D-glucosamine of hyaluronic acid.
- The conjugate showed high drug loading capacity, good water solubility and increased drug release in the presence of hyaluronidase.
- The conjugate revealed increased cellular uptake via CD44 receptor-mediated endocytosis.
- The conjugate demonstrated increased cytotoxicity and enhanced apoptosis-inducing effect against tumor cells.

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