Bipiperidine conjugates as soluble sugar surrogates in DNA-intercalating antiproliferative polyketides.

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Details

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Abstract

DNA-intercalating polyketide glycosides are important leads for cancer therapeutics, yet their use is often limited by their low solubility and challenging synthetic protocols. To overcome these limitations, we employed 1,4'-bipiperidine-1'-carbamate residues as sugar surrogates in daunorubicin and chartreusin, yielding water-soluble derivatives and prodrugs with dramatically improved antiproliferative activities.

Beteiligte Forschungseinheiten

Biomolekulare Chemie Christian Hertweck Mehr erfahren

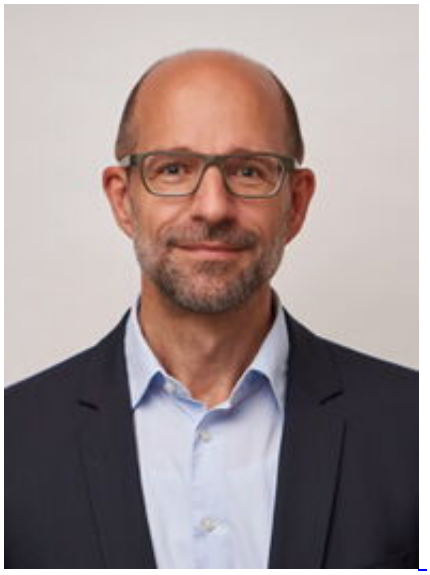
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