

PNU-159682

Catalog No: tcsc3298



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

202350-68-3

Formula:

$C_{32}H_{35}NO_{13}$

Pathway:

Antibody-drug Conjugate/ADC Related

Target:

ADC Cytotoxin

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

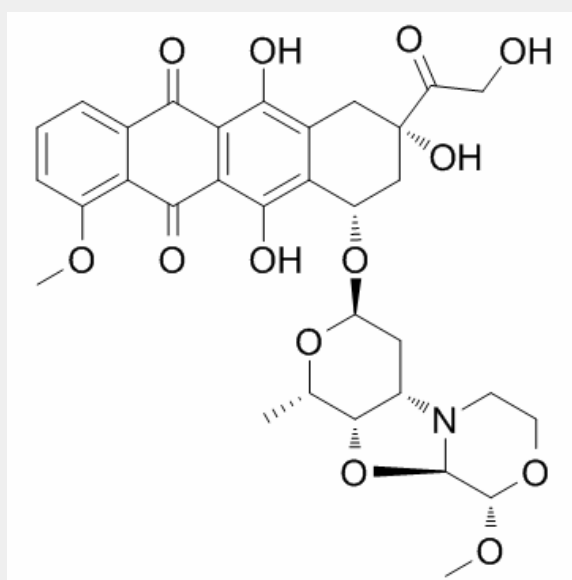
641.62

Product Description

PNU-159682, a highly potent metabolite of the anthracycline nemorubicin with outstanding cytotoxicity, is a potent **ADCs cytotoxin**.

In Vitro: PNU-159682 inhibits a panel of human tumor cell lines with IC₇₀ values in the range of 0.07-0.58 nM, and is 2,360- to 790-fold and 6,420- to 2,100-fold more potent than MMDX and doxorubicin, respectively^[1]. PNU-159682 (100 μM) weakly inhibits topoisomerase II unknotting activity. PNU-159682 (10 μM)-DNA adducts contain one or two drug molecules bound to double-stranded DNA^[2]. PNU-159682 shows cytotoxic effect on CAIX-expressing SKRC-52 cells with IC₅₀ of 25 nM^[3].

In Vivo: PNU-159682 (15 μg/kg, i.v.) shows antitumor activity in mice bearing disseminated murine L1210 leukemia and in MX-1 human mammary carcinoma xenografts at 4 μg/kg^[1]. PNU-159682 (25 nmol/kg) exhibits a potent antitumor effect in mice bearing SKRC-52 xenografted tumors^[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!