

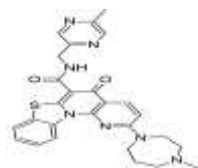
PRODUCT: CX-5461

ALTERNATE NAME: 2-(4-methyl-1,4-diazepan-1-yl)-N-((5-methylpyrazin-2-yl)methyl)-5-oxo-5H-benzo[4,5]thiazolo[3,2-a][1,8]naphthyridine-6-carboxamide

CATALOG #: B2183-1,5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₇H₂₇N₇O₂S

MOLECULAR WEIGHT: 513.61

CAS NUMBER: 1138549-36-6

APPEARANCE: Crystalline solid

SOLUBILITY: DMSO

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from light and light

DESCRIPTION: CX-5461 is a potent and orally bioavailable inhibitor of Pol I-mediated rRNA synthesis, with IC₅₀s of 142 nM in HCT-116, 113 nM in A375, and 54 nM in MIA PaCa-2 cells, and shows little or no effect on Pol II (IC₅₀ ≥25 μM). At 50 mg/kg, CX-5461 demonstrates *in vivo* antitumor activity against human solid tumors in mouse xenograft models.

REFERENCES: Haddach, M., et al. (2012). *ACS Med.Chem.Lett.* **3**, 602-606.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Fidaxomicin (**2832**)

Mithramycin A (**B1532**)

Tetracycline hydrochloride (**B1535**)

USAGE: ***FOR RESEARCH USE ONLY! Not to be used in humans***