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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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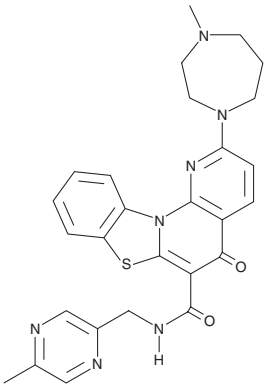
PRODUCT INFORMATION

CX-5461

Item No. 18392



CAS Registry No.:	1138549-36-6
Formal Name:	2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-N-[(5-methyl-2-pyrazinyl)methyl]-5-oxo-5H-benzothiazolo[3,2-a][1,8]naphthyridine-6-carboxamide
MF:	$C_{27}H_{27}N_7O_2S$
FW:	513.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 242, 292, 299, 339 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

CX-5461 is supplied as a crystalline solid. A stock solution may be made by dissolving the CX-5461 in the solvent of choice. CX-5461 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of CX-5461 in these solvents is approximately 0.1, 1, and 2 mg/ml, respectively.

CX-5461 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CX-5461 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CX-5461 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CX-5461 is an inhibitor of ribosomal RNA (rRNA) synthesis. It selectively inhibits RNA polymerase I-driven transcription of rRNA in HCT116, A375, and MIA PaCa-2 tumor cells (IC_{50}s = 142, 113, and 54 nM, respectively) without affecting RNA polymerase II (IC_{50} > 25µM), DNA replication, or protein translation.[1,2] At 50 mg/kg, CX-5461 demonstrates *in vivo* antitumor activity against human solid tumors in mouse xenograft models.[1]

References

1. Drygin, D., Lin, A., Bliesath, J., *et al.* Targeting RNA polymerase I with an oral small molecule CX-5461 inhibits ribosomal RNA synthesis and solid tumor growth. *Cancer Res.* **71(4)**, 1418-1430 (2011).
2. Haddach, M., Schwaebe, M.K., Michaux, J., *et al.* Discovery of CX-5461, the first direct and selective inhibitor of RNA polymerase I, for cancer therapeutics. *ACS Med. Chem. Lett.* **3(7)**, 602-606 (2012).

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