

Sibiromycin Biochemical

Sibiromycin

CATALOG #
AAA227566

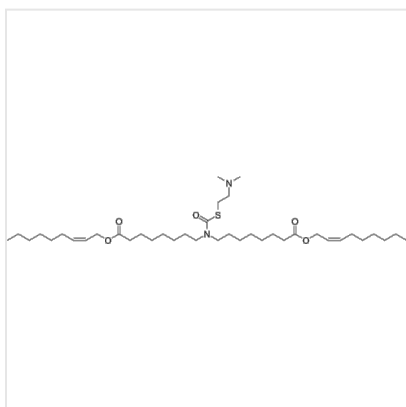
PRODUCT SYNONYMS

Sibiromycin; Sibiromycin biochemical

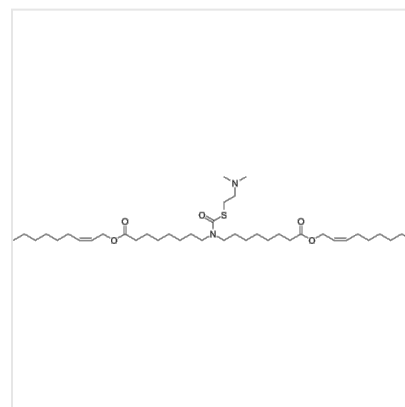
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	12684-33-2
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Pyrrolobenzodiazepines (PBDs) are sequence selective DNA alkylating agents with remarkable antineoplastic activity[1]. Alkylation of DNA by anthramycin, sibiromycin and tomaymycin is sequence specific with the following trend for binding preference 5?-Pu-G-Pu5?-Py-G-Pu5?-Pu-G-Py5?-Py-G-Py[1]. Sibiromycin shows cytotoxicity against L1210 (leukemia), ADJ/PC6 (plasmacytoma) and CH1 (ovarian) cells with IC50s of ranging 0.000017 ~0.0029 μ M[1].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
ATX-002, CAS 1777792-34-3



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ADDITIONAL INFORMATION

Related Product Information for Sibiromycin biochemical	Sibiromycin is a naturally produced glycosylated pyrrolobenzodiazepines (PBDs). Sibiromycin is also a potent antitumor antibiotic that binds covalently to DNA in the minor groove at the NH2 of guanine.
References	1. Rajappan K, et al. Property-Driven Design and Development of Lipids for Efficient Delivery of siRNA. J Med Chem. 2020 Nov 12;63(21):12992-13012.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

