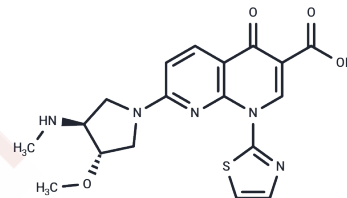


## Voreloxin

## Chemical Properties

CAS No. :	175414-77-4
Formula:	C <sub>18</sub> H <sub>19</sub> N <sub>5</sub> O <sub>4</sub> S
Molecular Weight:	401.44
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Voreloxin (SNS-595) is a potent Topoisomerase II inhibitor with broad-spectrum anti-tumor activity. Phase 2.
Targets(IC50)	Apoptosis,Topoisomerase
In vitro	Suprofen inactivates the diclofenac-4-hydroxylase activity of baculovirus-expressed P450 2C9 in a time- and concentration-dependent manner, which is consistent with mechanism-based inactivation. [1] Suprofen is a known generator of singlet oxygen whose participation in the reaction is supported by the effects of quenchers and scavengers. Suprofen photosensitizes the production of alkali-labile cleavage sites in DNA much more efficiently than direct strand breaks. [2] Suprofen sensitizes photo-oxidation of cholesterol, producing 7 alpha- and 7 beta-hydroperoxides but not 5 alpha-hydroperoxide of cholesterol. Suprofen-sensitized photo-oxidation of membrane lipids of liposomes increases leakage of trapped glucose, suggesting photosensitized destabilization of the membrane structure. [3] Suprofen incorporation in the phosphatidylcholine (PC) evaporation vesicles (REV) membrane leads to approximately 5% increase in the encapsulation efficiency (34%) in comparison to standard REV (29%). [4]

## Solubility Information

Solubility	DMSO: 20 mg/mL (49.82 mM),Heating is recommended. H <sub>2</sub> O: <1 mg/mL, Ethanol: <1 mg/mL, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.491 mL	12.4552 mL	24.9103 mL
5 mM	0.4982 mL	2.491 mL	4.9821 mL
10 mM	0.2491 mL	1.2455 mL	2.491 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Tsuzuki Y, et al. J Med Chem. 2004, 47(8), 2097-2109.

Yin J, Jia P, Qu X, et al. Discovery of Voreloxin as a Dual-Selective Stabilizer for c-Myc/Bcl-2 G-Quadruplexes in Leukemia. Chemical Biology & Drug Design. 2024, 104(6): e70034.

Hoch U, et al. Cancer Chemother Pharmacol. 2009, 64(1), 53-65.

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