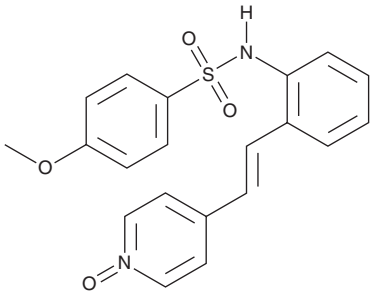
PRODUCT INFORMATION

HMN-176

Item No. 37424



CAS Registry No.:	173529-10-7
Formal Name:	4-methoxy-N-[2-[(1E)-2-(1-oxido-4-pyridinyl) ethenyl]phenyl]-benzenesulfonamide
MF:	$C_{20}H_{18}N_2O_4S$
FW:	382.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 239, 343 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

HMN-176 is supplied as a solid. A stock solution may be made by dissolving the HMN-176 in the solvent of choice, which should be purged with an inert gas. HMN-176 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of HMN-176 in these solvents is approximately 10 mg/ml.

Description

HMN-176 is an anticancer agent and active metabolite of the prodrug HMN-214 (Item No. 26210).[1] It is cytotoxic against a panel of cancer cell lines with a mean IC_{50} value of 112 nM, as well as P388 leukemia cells that are resistant to the DNA-crosslinking agent cisplatin (Item No. 13119), anthracycline antitumor antibiotic doxorubicin (Item No. 15007), or antimitotic vincristine (Item No. 11764) (IC_{50}s = 143, 557, and 265 nM, respectively). HMN-176 (3 µM) induces cell cycle arrest at the G_2/M phase in HeLa cervical cancer cells.

References

1. Takagi, M., Honmura, T., Watanabe, S., *et al. In vivo* antitumor activity of a novel sulfonamide, HMN-214, against human tumor xenografts in mice and the spectrum of cytotoxicity of its active metabolite, HMN-176. *Invest. New Drugs* **21(4)**, 387-399 (2003).

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