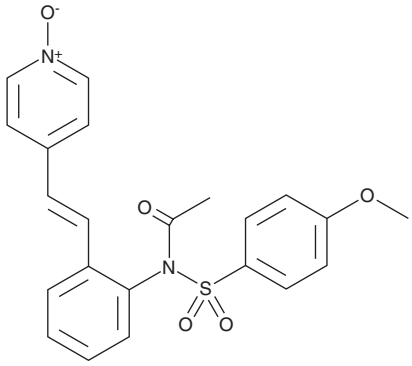
PRODUCT INFORMATION

HMN-214

Item No. 26210



CAS Registry No.:	173529-46-9
Formal Name:	N-[(4-methoxyphenyl)sulfonyl]-N-[2-[(1E)-2-(1-oxido-4-pyridinyl) ethenyl]phenyl]-acetamide
Synonym:	IVX-214
MF:	$C_{22}H_{20}N_2O_5S$
FW:	424.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 244, 340 nm
Supplied as:	A crystalline 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-214 is supplied as a crystalline solid. A stock solution may be made by dissolving the HMN-214 in the solvent of choice, which should be purged with an inert gas. HMN-214 is soluble in the organic solvent DMSO at a concentration of approximately 12 mg/ml.

Description

HMN-214 is an orally bioavailable prodrug form of HMN-176, an indirect inhibitor of polo-like kinase (PLK) activity that inhibits proliferation of a variety of cancer cells.[1,2] HMN-214 decreases the expression of multidrug resistance gene 1 (MDR1) in AB-A.1 cells and in tumors isolated from mice bearing multidrug-resistant KB-A1 xenografts.[2] HMN-214 (20 mg/kg per day) reduces tumor volume in PC3, WiDr, and A549 mouse xenograft models.[1] It does not decrease nerve conduction velocity or compound action potential amplitude in rabbit sciatic nerves *in vivo* when administered at a concentration of 30 mg/kg per day.

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).
2. Tanaka, H., Ohshima, N., Ikenoya, M., *et al.* HMN-176, an active metabolite of the synthetic antitumor agent HMN-214, restores chemosensitivity to multidrug-resistant cells by targeting the transcription factor NF-Y. *Cancer Res.* **63(20)**, 6942-6947 (2003).

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