Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

HMN-214

Catalog No: tcsc0202

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
173529-46-9

Formula:
$C_{22}H_{20}N_2O_5S$

Pathway:
Cell Cycle/DNA Damage

Target:
Polo-like Kinase (PLK)

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
IVX-214

Observed Molecular Weight:
424.47

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Product Description

HMN-214, an orally bioavailable prodrug of HMN-176, is an inhibitor of polo-like kinase-1 (**plk1**), with antitumor activity.

IC50 & Target: PLK1[2][4]

In Vitro: HMN-214 is a prodrug of HMN-176. HMN-176 shows potent activities against 22 human tumor cell lines, with a mean IC_{50}s of 118 nM[1]. HMN-176 (3-300 nM) inhibits luciferase expression driven by the MDR1 promoter in a dose dependent manner in HeLa cells. HMN-176 (30-3000 nM) also dose-dependently suppresses complex formation on the Y-box[3]. HMN-214 (3.3 μM) enhances luciferase expression relative to vehicle control with the 1,4C-1,4Bis polymer (11-fold) and PEI (37-fold) in PC3-PSMA cells. HMN-214 (≥ 3.3 μM) significantly reduces cell proliferation, causes considerable changes in cell morphology in MB49 cells[4].

In Vivo: HMN-214 (33 mg/kg, p.o.) converts to HMN-176 in rats. HMN-214 has no effect on the conduction velocity and the amplitude of action potentials in the aciatic and tibial nerves. HMN-214 (20 mg/kg, p.o.) exhibits antitumor activity in mice[1]. HMN-214 (10, 20 mg/kg, p.o.) decreases MDR1 mRNA expression in nude mice bearing KB- and KB-A.1.-derived tumors[3].