Irinotecan is an analog of camptothecin that is used clinically to treat colon and ovarian cancers, among others. Irinotecan exhibits anticancer chemotherapeutic, anti-angiogenic, and immunosuppressive activities. Irinotecan inhibits DNA topoisomerase I and sensitizes tumors to the effects of radiation. In glioma models, irinotecan decreases the number of tumor vessels and decreases expression of VEGF and HIF-1α, inhibiting tumor growth. Irinotecan also moderates inhibition of dendritic cell differentiation and may produce cholinergic side effects, suggesting potential inhibition of acetylcholinesterase (AChE) as well.

References


Product Information

Product ID I6933
CAS No. 136572-09-3

Chemical Name [1,4'-Bipiperidine]-1'-carboxylic acid (4S)-4,11-dieethyl-3,4,12,14-tetrahydro-4-hydroxy-3,14-dioxo-1H-pyran[3',4':6,7]indolizin[1,2-b]quinolin-9-yl ester hydrochloride trihydrate

Synonym Irinotecan hydrochloride trihydrate, Camptosar, Campto, CPT-11

Formula C33H38N4O6 • HCl • 3H2O
Formula Wt. 677.19
Melting Point 256.5 °C
Purity ≥98%
Solubility Slightly soluble in water (25 mg/mL), ethanol (7 mg/mL), chloroform. DMSO (100 mg/mL)

Store Temp 4 °C
Ship Temp Ambient

Irinotecan is an analog of camptothecin that is used clinically to treat colon and ovarian cancers, among others. Irinotecan exhibits anticancer chemotherapeutic, anti-angiogenic, and immunosuppressive activities. Irinotecan inhibits DNA topoisomerase I and sensitizes tumors to the effects of radiation. In glioma models, irinotecan decreases the number of tumor vessels and decreases expression of VEGF and HIF-1α, inhibiting tumor growth. Irinotecan also moderates inhibition of dendritic cell differentiation and may produce cholinergic side effects, suggesting potential inhibition of acetylcholinesterase (AChE) as well.

References


Caution: This product is intended for laboratory and research use only. It is not for human or drug use.