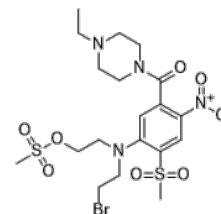


Product Name : CP-506
Cat. No. : PC-25507
CAS No. : 2227303-52-6
Molecular Formula : C₁₉H₂₉BrN₄O₈S₂
Molecular Weight : 585.49
Target : DNA Alkylator/Crosslinker
Solubility : 10 mM in DMSO



CAS: 2227303-52-6

Biological Activity

CP-506 is a DNA alkylating hypoxia-activated prodrug (HAP), shows selective antitumor effects for hypoxic tumor cells and causally related to tumor oxygenation.

CP-506 is designed to be resistant to AKR1C3 metabolism, ensuring highly specific hypoxia-dependent activation.

CP-506 demonstrates cytotoxicity selectively in hypoxic 2D and 3D cell cultures with normoxic/anoxic IC₅₀ ratios up to 203.

CP-506 effectively decreased the hypoxic fraction and inhibited growth of a wide range of hypoxic xenografts.

References

van der Wiel AMA, et al. Mol Cancer Ther. 2021 Dec;20(12):2372-2383.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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