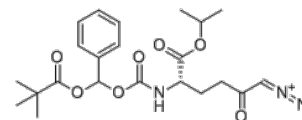


Product Name : JHU395
Cat. No. : PC-38668
CAS No. : 2079938-92-2
Molecular Formula : C₂₂H₂₉N₃O₇
Molecular Weight : 447.488
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

JHU395 is orally-bioavailable glutamine antagonist prodrug, shows antitumor activity in malignant peripheral nerve sheath tumor (MPNST, sNF96.2 cell growth IC₅₀=4.6 uM).

JHU395 exhibits increased metabolic stability in swine and human plasma, favorable conversion in brain homogenate, and substantially improved CNS delivery in vivo in swine, compare with 6-diazo-5-oxo-L-norleucine (DON).

JHU395 attenuates glutamate synthesis in HIV-infected microglia/macrophages, offering therapeutic potential for HIV-associated neurocognitive disorders (HAND).

JHU395 also decreased growth and increased apoptosis in multiple human high-MYC medulloblastoma cell lines at lower concentrations than DON.

References

Nedelcovych MT, et al. J Med Chem. 2017;60:7186–98.

Lemberg KM, et al. Mol Cancer Ther. 2020 Feb;19(2):397-408.

Khoa Pham, et al. J Neuropathol Exp Neurol. 2021 Mar 22;80(4):336-344.

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

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