
Product Data Sheet

Product Name: JHU395
Cat. No.: GC25536

Chemical Properties

Cas. No. 2079938-92-2

Formula C₂₂H₂₉N₃O₇ M.Wt 447.48

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

JHU395 is a novel orally bioavailable GA (glutamine antagonists) prodrug designed to circulate inert in plasma, but permeate and release active GA within target tissues. JHU395 delivers active GA to malignant peripheral nerve sheath tumor (MPNST), and significantly inhibits tumor growth without observed toxicity.

JHU395 inhibits growth of multiple biosynthetic processes by tumors (MPNST) cells, while growth of immortalized Schwann cells is minimally affected. JHU395 induces less PARP cleavage as a marker of apoptosis in human MPNST cells. JHU395 is a plasma stable lipophilic GA prodrug which delivers DON to MPNST in an in vitro plasma to tumor cell partitioning assay measurement.[1]

In vivo, orally administered JHU395 delivers active GA to tumors with over twofold higher tumor-to-plasma exposure, and significantly inhibits tumor growth in a murine flank MPNST model without observed toxicity.[1]

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

Caution: Product has not been fully validated for medical applications. For research use only.

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