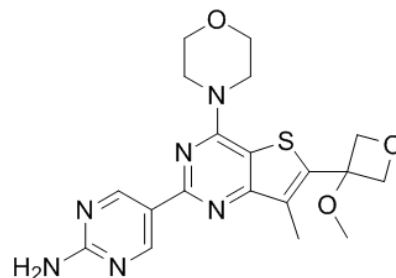


Product Name : GNE-317
Cat. No. : PC-43188
CAS No. : 1394076-92-6
Molecular Formula : C₁₉H₂₂N₆O₃S
Molecular Weight : 414.4814
Target : PI3K
Solubility : DMSO: 20 mg/mL



Biological Activity

GNE-317 (GNE317) is a potent, brain penetrant, dual **PI3K/mTOR** inhibitor having physicochemical properties predictive of low efflux by P-gp and BCRP.

GNE-317 inhibits the cell proliferation of GBM6, 10, 22, and 84 with IC₅₀ of 0.59, 0.72, 0.26, and 3.49 μM, respectively.

GNE-317 markedly inhibits the PI3K pathway in mouse brain, causing 40% to 90% suppression of the pAkt and pS6 signals.

GNE-317 significantly inhibits tumor growth in orthotopic models of glioblastoma multiforme (GBM).

References

Salphati L, et al. *Clin Cancer Res.* 2012 Nov 15;18(22):6239-48.

Lewis Phillips GD, et al. *Breast Cancer Res Treat.* 2017 Aug;164(3):581-591.

Becker CM, et al. *Neuro Oncol.* 2015 Sep;17(9):1210-9.

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

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