

Product Data Sheet

Product Name: IAG-10
Cat. No.: GC79032

Chemical Properties

Cas. No. 2361305-69-1

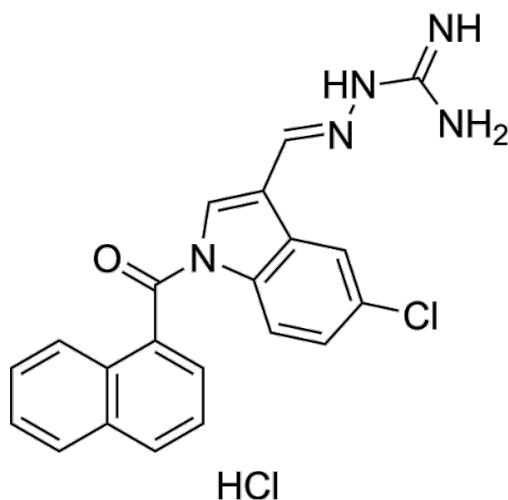
Formula $C_{21}H_{17}Cl_2N_5O$ M.Wt 426.3

Solubility DMSO: 100 mg/mL (234.58 mM; Need ultrasonic) Storage Store at 4°C, sealed storage, away from moisture

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

IAG-10 is a selective DNA polymerase kappa (hpol κ) inhibitor with an IC_{50} value of 7.2 μ M. IAG-10 exerts its function by disrupting the formation of the binary complex between the enzyme and DNA. IAG-10 enhances the antiproliferative and DNA-damaging activities of Temozolomide in tumor cells with functional hpol κ expression. IAG-10 can be used in the research of cancers such as malignant brain tumors [1].

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

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In Vitro, IAG-10 (0.1-0.5 μ M; 1 hour) potentiates the anti-proliferative effect of Temozolomide in hpol κ -proficient HAP-1 cells but not in hpol κ -deficient cells, indicating target-dependent activity^[1]. IAG-10 (0.5 μ M; 1 hour) increases DNA damage in hpol κ -proficient HAP-1 cells alone and in combination with Temozolomide, with no effect in hpol κ -deficient cells^[1].

References:

[1]. Ketkar A, et al. Inhibition of Human DNA Polymerases Eta and Kappa by Indole-Derived Molecules Occurs through Distinct Mechanisms. ACS Chem Biol. 2019;14(6):1337-1351.

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