

Product Data Sheet

Product Name: XL177A
Cat. No.: GC62517

Chemical Properties

Cas. No. 2417089-74-6

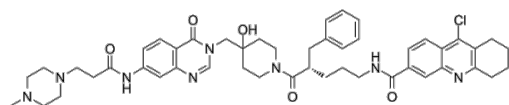
Formula $C_{48}H_{57}ClN_8O_5$ M.Wt 861.47

Solubility DMSO : 50 mg/mL (58.04 mM; Need ultrasonic) 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

XL177A is a highly potent and selective irreversible USP7 inhibitor with an IC₅₀ of 0.34 nM. XL177A

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

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elicits cancer cell killing through a p53-dependent mechanism[1].

XL177A is a potent USP7 inhibitor and p53 stabilizer in cyto. XL177A suppresses cancer cell growth predominantly through a p53-dependent mechanism. XL177A labels the catalytic cysteine, C223, of USP7 with exquisite selectivity for USP7 across the DUBome and human proteome[1]. XL177A (1 μ M) induces complete G1 arrest in MCF7 cells after 24 hours[1]. Treatment of MCF7 cells, which express WT TP53, with XL177A (0.001- 10 μ M) induces rapid degradation of HDM2 within 2 hours, followed by increases in p53 and downstream p21 protein levels[1].

[1]. Nathan J Schauer, et al. Selective USP7 inhibition elicits cancer cell killing through a p53-dependent mechanism. Sci Rep.2020 Mar 24;10(1):5324.

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