

Product Data Sheet

Product Name: PI3K α -IN-9

Cat. No.: GC73313

Chemical Properties

Cas. No. 2715287-67-3

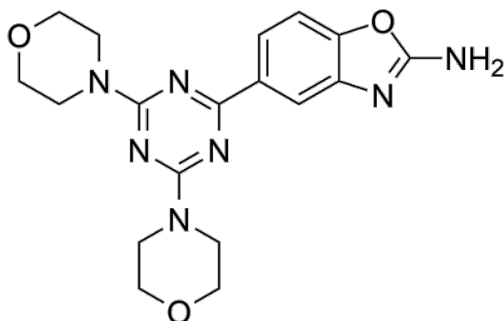
Formula C₁₈H₂₁N₇O₃ M.Wt 383.4

Solubility DMSO : 100 mg/mL (260.82 mM; ultrasonic and warming and heat to 80°C) Storage -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

PI3K α -IN-9 (compound 27) is a selective, long-acting and oral active PI3K α inhibitor with IC₅₀ values of 4.4, 128, 146 and 153 nM for PI3K α , PI3K γ , PI3K δ and PI3K β , respectively. PI3K α -IN-9 has antiproliferative activity and induces apoptosis. PI3K α -IN-9 can be used for cancer research.

PI3K α -IN-9 (compound 27) (0-8 μ M; 72 hours; cancer cell lines) has antiproliferative activity and induces apoptosis[1]. PI3K α -IN-9 (compound 27) (0-8 μ M; MGC-803 cells) down-regulates the

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expression of PI3K α protein, the proteins of PI3K downstream, p-AKT and p-P70S6 K[1].

PI3K α -IN-9 (compound 27) (1-10 mg/kg; p.o. and i.v.; for 24 hours; male Sprague-Dawley rat) has favorable stability ($T_{1/2}$ >10 h) and high bioavailability (130%)[1]. PI3K α -IN-9 (compound 27) (30 mg/kg; p.o.; daily, for 3 weeks; male BALB/c nude mice) has antitumor activity and low cytotoxicity[1].

References:

[1]. Hou Y, et, al. Discovery of Novel Phosphoinositide-3-Kinase α Inhibitors with High Selectivity, Excellent Bioavailability, and Long-Acting Efficacy for Gastric Cancer. J Med Chem. 2022 Jul 14.

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