

Product Data Sheet

Product Name: PGK1-IN-1

Cat. No.: GC81605

Chemical Properties

Cas. No. 3093312-81-0

Formula C₂₂H₂₈N₆O₃

M.Wt 424.5

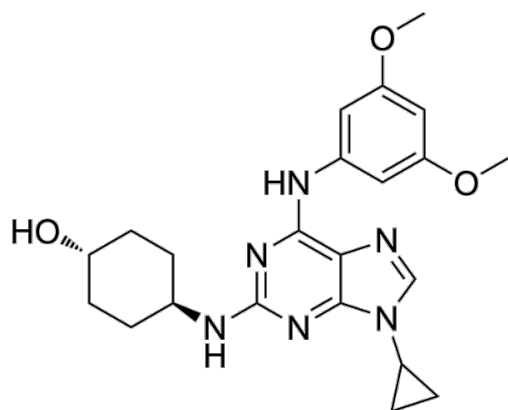
Solubility DMSO: 1 mg/mL (2.36 mM);
ultrasonic and warming and heat to
60°C)

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

PGK1-IN-1 (Compound 6e) is a potent and selective PGK1 inhibitor (IC₅₀: 33 nM). PGK1-IN-1 inhibits PGK1-mediated glycolytic metabolism and reduces glucose consumption/lactate production. PGK1-IN-1 enhances Nrf2 accumulation and HO-1 expression, and suppresses the transcription and protein levels of the inflammatory cytokines IL-1β and IL-6. PGK1-IN-1 ameliorates Dextran sulfate sodium (DSS) -induced experimental colitis in mice. PGK1-IN-1 can be used for research of inflammatory bowel disease (IBD) [1].

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

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References:

[1]. Huang Z, et al. Discovery of Novel Purine Derivatives as Potent and Orally Bioavailable PGK1 Inhibitors for the Treatment of Inflammatory Bowel Disease. J Med Chem. 2025 Oct 23;68(20):21394-21411.

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