
Product Data Sheet

Product Name: PI3K α /mTOR-IN-1

Cat. No.: GC36909

Chemical Properties

Cas. No. 1013098-90-2

SMILES O=C1C(C2=CN=C2)=CC3=C(C)N=C(N)N=C3N1C4CCCC4Formula C₁₆H₁₈N₆O M.Wt 310.35

Solubility Soluble in DMSO 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**

PI3K α /mTOR-IN-1 is a potent PI3K α /mTOR dual inhibitor, with an IC₅₀ of 7 nM for PI3K α in a cell assay, and K_is of 10.6 nM and 12.5 nM for mTOR and PI3K α in a cell free assay , respectively. PI3K α |7 nM (IC₅₀, Cell Assay)|PI3K α |12.5 nM (K_i)|mTOR|10.6 nM (K_i)

PI3K α /mTOR-IN-1 exhibits potent activity against PI3K α and mTOR, high LipE, good kinase selectivity and robust ADMET properties[1].

PI3K α /mTOR-IN-1 exhibits low HLM ER, but it is highly cleared in rat liver microsome (RLM) with ER of 0.88. PI3K α /mTOR-IN-1 exhibits moderate clearance, moderate V_{dss}, T_{1/2} of 0.9 h, and good oral bioavailability[1].

[1]. Le PT, et al. Design and synthesis of a novel pyrrolidinyl pyrido pyrimidinone derivative as a potent inhibitor of PI3K α and mTOR. Bioorg Med Chem Lett. 2012 Aug 1;22(15):5098-103.

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

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