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**Product Data Sheet**


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Product Name: PI3K/HDAC-IN-1

Cat. No.: GC36905

**Chemical Properties**

Cas. No. 2361418-52-0

SMILES CC1=C2C(C(OCCCCCCC(NO)=O)=CC(C3=CC(F)=C(OC)N=C3)=C2)=NC=N1Formula C<sub>22</sub>H<sub>25</sub>FN<sub>4</sub>O<sub>4</sub> M.Wt 428.46

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/HDAC-IN-1 is a potent dual inhibitor of PI3K/HDAC, potently inhibits PI3K $\delta$  and HDAC1 with IC<sub>50</sub>s of 8.1 nM and 1.4 nM, respectively[1]. PI3K $\alpha$ |42 nM (IC<sub>50</sub>)|PI3K $\beta$ |101 nM (IC<sub>50</sub>)|PI3K $\gamma$ |67 nM (IC<sub>50</sub>)|PI3K $\delta$ |8.1 nM (IC<sub>50</sub>)|HDAC1|1.4 nM (IC<sub>50</sub>)|HDAC2|3.0 nM (IC<sub>50</sub>)|HDAC6|6.6 nM (IC<sub>50</sub>)|HDAC8|18 nM (IC<sub>50</sub>)

[1]. Zhang K, et al. Design, Synthesis, and Biological Evaluation of 4-Methyl Quinazoline Derivatives as Anticancer Agents Simultaneously Targeting Phosphoinositide 3-Kinases and Histone Deacetylases. J Med Chem. 2019 May 29.

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

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