

Product Data Sheet

Product Name: PDK-IN-3

Cat. No.: GC73738

Chemical Properties

Cas. No.

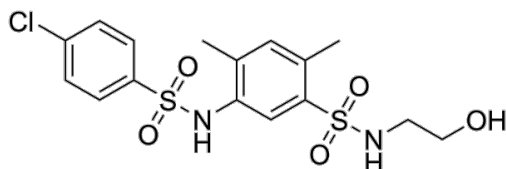
Formula $C_{16}H_{19}ClN_2O_5S_2$ M.Wt 418.92

Solubility DMSO : 66.67 mg/mL (159.15 mM; ultrasonic and warming and adjust pH to 2 with 1 M HCL and heat to 60°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

PDK-IN-3 (compound 1) is a potent pan inhibitor of PDK with IC₅₀s of 109.3, 135.8, 458.7 nM and 8.67 μM against PDK 1-4, respectively. PDK-IN-3 also induces proliferation and apoptosis in A549 cells.

References:

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

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[1]. Gan L, et al. Targeting the pyruvate dehydrogenase complex/pyruvate dehydrogenase kinase (PDC/PDK) axis to discover potent PDK inhibitors through structure-based virtual screening and pharmacological evaluation. Eur J Med Chem. 2023 Dec 3;264:116008.

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