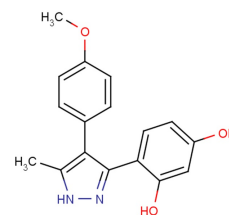


M77976

Chemical Properties

CAS No.: 394237-61-7
Formula: C₁₇H₁₆N₂O₃
Molecular Weight: 296.32
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	M77976 is the potential for the research of obesity and diabetes. M77976 is a specific ATP-competitive inhibitor of PDK4 (pyruvate dehydrogenase kinase isoforms 4) (IC ₅₀ : 648 μM).
Targets(IC ₅₀)	PDK4: 648 μM
In vitro	M77976 makes hydrophobic interactions with the side chains of Asn258, Ala262, Val298, Leu306, and Thr358 of PDK4. M77976 binds to the ATP-binding pocket of PDK4 and induces local conformational changes with complete disordering of the ATP lid.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.375 mL	16.874 mL	33.747 mL
5 mM	0.675 mL	3.375 mL	6.749 mL
10 mM	0.337 mL	1.687 mL	3.375 mL
50 mM	0.067 mL	0.337 mL	0.675 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kukimoto-Niino M, et al. Inhibitor-bound structures of human pyruvate dehydrogenase kinase 4. Acta Crystallogr D Biol Crystallogr. 2011 Sep;67(Pt 9):763-73.

Inhibitors · Natural Compounds · Compound Libraries

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