

ZY-444

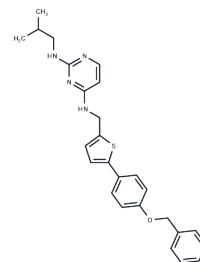
Chemical Properties

CAS No. : 1802650-31-2

Formula: C₂₆H₂₈N₄O₅

Molecular Weight: 444.59

Storage: Store at low temperature, Keep away from direct sunlight
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	ZY-444 is a small molecule inhibiting the progression of breast cancer by targeting pyruvate carboxylase.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (179.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.42 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2493 mL	11.2463 mL	22.4926 mL
5 mM	0.4499 mL	2.2493 mL	4.4985 mL
10 mM	0.2249 mL	1.1246 mL	2.2493 mL
50 mM	0.045 mL	0.2249 mL	0.4499 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lin Q, et al. Targeting Pyruvate Carboxylase by a Small Molecule Suppresses Breast Cancer Progression. Adv Sci (Weinh). 2020 Mar 12;7(9):1903483.

Han MT, et al. ZY-444 inhibits the growth and metastasis of prostate cancer by targeting TNFAIP3 through TNF signaling pathway. Am J Cancer Res. 2023 Apr 15;13(4):1533-1546.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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