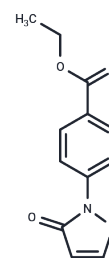


KM04416

## Chemical Properties

CAS No. : 26530-26-7  
Formula: C<sub>12</sub>H<sub>11</sub>NO<sub>3</sub>  
Molecular Weight: 249.29  
Storage: Store at low temperature  
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	KM04416 is a GPD2 inhibitor that inhibits LUAD progression by modulating immune cell infiltration.
Targets(IC50)	Others,Dehydrogenase
In vitro	KM04416 (20 μM, 48 h) was able to show growth inhibition on a variety of cancer cell lines. KM04416 (10 μM, 72 h) significantly reduced the proliferation of PNT1A cells.[1]

## Solubility Information

Solubility	DMSO: 40 mg/mL (160.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (8.02 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

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	1mg	5mg	10mg
1 mM	4.0114 mL	20.057 mL	40.1139 mL
5 mM	0.8023 mL	4.0114 mL	8.0228 mL
10 mM	0.4011 mL	2.0057 mL	4.0114 mL
50 mM	0.0802 mL	0.4011 mL	0.8023 mL

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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

Oh S, et al. Non-bioenergetic roles of mitochondrial GPD2 promote tumor progression. *Theranostics*. 2023 Jan 1;13(2):438-457.

Singh G. Mitochondrial FAD-linked Glycerol-3-phosphate Dehydrogenase: A Target for Cancer Therapeutics. *Pharmaceuticals (Basel)*. 2014 Feb 11;7(2):192-206.

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