KM04416

Cat. No.:	HY-148685		
CAS No.:	26530-26-7		
Molecular Formula:	C ₁₂ H ₁₁ NO ₃ S		
Molecular Weight:	249.29		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.0114 mL	20.0570 mL	40.1139 mL
	Stock Solutions	5 mM	0.8023 mL	4.0114 mL	8.0228 mL
		10 mM	0.4011 mL	2.0057 mL	4.0114 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo	1. Add each solvent Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% cor g/mL (10.03 mM); Clear solution	n oil		

DIOLOGICALACITY		
Description	KM04416, an isothiazolon significantly inhibits PNT:	e derivative, is a potent glycerol-3-phosphate dehydrogenase (GPD2) inhibitor. KM04416 LA cell proliferation ^{[1][2]} .
In Vitro	KM04416 (20 μM; 48 h) ha KM04416 (10 μM; 72 h) sig MCE has not independent Cell Viability Assay ^[1]	s a growth inhibitory effect on several cancer cell lines ^[1] . nificantly inhibits PNT1A cell proliferation ^[1] . Ily confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	Several cancer cell lines including MDA-MB-231 and AsPC-1 as well as Huh-7, HepG2, and SK-HEP-1 cells
	Concentration:	20 μΜ

Product Data Sheet





Incubation Time:	48 h
Result:	Had a growth inhibitory effect.
Cell Proliferation Assay ^[2]	
Cell Line:	PNT1A cell
Concentration:	10 μΜ
Incubation Time:	72 h
Result:	Significantly inhibited PNT1A cell proliferation.

REFERENCES

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

[2]. Gurmit Singh, et al. Mitochondrial FAD-linked Glycerol-3-phosphate Dehydrogenase: A Target for Cancer Therapeutics. Pharmaceuticals (Basel). 2014 Feb 11;7(2):192-206.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA