FIDAS-5

Cat. No.: CAS No.: Molecular Formula: Molecular Weight:	HY-136144 1391934-98 C ₁₅ H ₁₃ CIFN 261.72	-7		F HN
Pathway: Storage:	Epigenetics Powder	; Metabol -20°C	ic Enzyme/Protease 3 years	CI
-	* The comp	4°C ound is u	2 years nstable in solutions, freshly prepared is recommended.	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (4	77.61 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.8209 mL	19.1044 mL	38.2088 mL
		5 mM	0.7642 mL	3.8209 mL	7.6418 mL
		10 mM	0.3821 mL	1.9104 mL	3.8209 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo	1. Add each solvent Solubility: ≥ 2.08 r	one by one: 10% DMSO >> 40% PE(ng/mL (7.95 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	
	2. Add each solvent Solubility: ≥ 2.08 r	one by one: 10% DMSO >> 90% (20 ng/mL (7.95 mM); Clear solution	% SBE-β-CD in saline)		

BIOLOGICAL ACTIV	
Description	FIDAS-5 is a potent and orally active methionine S-adenosyltransferase 2A (MAT2A) inhibitor with an IC ₅₀ of 2.1 μM. FIDAS-5 effectively competes against S-adenosylmethionine (SAM) for MAT2A binding. FIDAS-5 has anticancer activities ^[1] .
IC ₅₀ & Target	IC50: 2.1 μ M (Methionine S-adenosyltransferase 2A (MAT2A)) ^[1]
In Vitro	FIDAS-5 (3 μM; 7 days; LS174T cells) treatment significantly inhibits the proliferation of LS174T cells ^[1] . FIDAS-5 (3 μM) treatment inhibits the expression of c-Myc and cyclinD1 in LS174T CRC cells. And FIDAS-5 induces the expression of cell cycle inhibitor, p21 ^{WAF1/CIP1[1]} . FIDAS-5 (3 μM; 36 h) treatment reduces the levels of both S-adenosylmethionine (SAM) and S-adenosylhomocysteine (SAH) in LS174T cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.



	Cell Viability Assay ^[1]					
	Cell Line:	LS174T colorectal cancer (CRC) cells				
	Concentration:	3 μМ				
	Incubation Time:	7 days				
	Result:	Significantly inhibited the proliferation of LS174T cells.				
In Vivo		FIDAS-5 (20 mg/kg; oral gavage; daily; for two weeks; athymic nude mice) treatment significantly inhibits the growth of xenograft tumors, with minimal difference in body weight ^[1] . Mice are treated with FIDAS-5 (20 mg/kg) for 1 week. The liver SAM levels are significantly reduced ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo	FIDAS-5 (20 mg/kg; oral xenograft tumors, with r Mice are treated with FIE MCE has not independer	gavage; daily; for two weeks; athymic nude mice) treatment significantly inhibits the growth of minimal difference in body weight ^[1] . DAS-5 (20 mg/kg) for 1 week. The liver SAM levels are significantly reduced ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.				
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CUSTOMER VALIDATION

- Nat Metab. 2023 Nov 16.
- Development. 2023 Mar 28;dev.201135.

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REFERENCES

[1]. Zhang W, et al. Fluorinated N,N-dialkylaminostilbenes repress colon cancer by targeting methionine S-adenosyltransferase 2A. ACS Chem Biol. 2013 Apr 19;8(4):796-803.

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

Tel: 609-228-6898 Fax: 609-228-5909

9 E-mail: tech@MedChemExpress.com

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