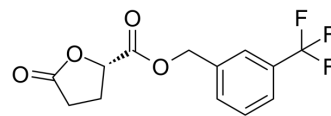


TFMB-(S)-2-HG

Cat. No.:	HY-129079A	
CAS No.:	1445703-64-9	
Molecular Formula:	C ₁₃ H ₁₁ F ₃ O ₄	
Molecular Weight:	288.22	
Target:	DNA Methyltransferase	
Pathway:	Epigenetics	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (346.96 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	3.4696 mL	17.3479 mL	34.6957 mL
			5 mM	0.6939 mL	3.4696 mL	6.9391 mL
10 mM	0.3470 mL	1.7348 mL	3.4696 mL			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.67 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	TFMB-(S)-2-HG is a potent inhibitor of the 5'-methylcytosine hydroxylase TET2. TFMB-(S)-2-HG also inhibits the EgIN prolyl hydroxylases. TFMB-(S)-2-HG has the potential for the research of acute myeloid leukemia (AML) ^[1] .
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REFERENCES

[1]. Losman JA, et al. (R)-2-hydroxyglutarate is sufficient to promote leukemogenesis and its effects are reversible. *Science*. 2013;339(6127):1621-1625.

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

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