## SGC-iMLLT

Cat. No.:	HY-112804		
CAS No.:	2255338-25-9		
Molecular Formula:	$C_{22}H_{24}N_{6}O$		
Molecular Weight:	388.47		
Target:	Epigenetic Reader Domain		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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### SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.5742 mL	12.8710 mL	25.7420 mL		
		5 mM	0.5148 mL	2.5742 mL	5.1484 mL		
		10 mM	0.2574 mL	1.2871 mL	2.5742 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.35 mM); Clear solution					
		<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</li> <li>Solubility: 2.08 mg/mL (5.35 mM); Suspended solution; Need ultrasonic</li> </ol>					
		<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (5.35 mM); Clear solution</li> </ol>					

BIOLOGICAL ACTIVITY			
Description	SGC-iMLLT is a first-in-class chemical probe and a potent, selective inhibitor of MLLT1/3-histone interactions with an IC <sub>50</sub> of 0.26 μM. SGC-iMLLT shows high binding activity towards MLLT1 YEATS domain (YD) and MLLT3 YD (AF9/YEATS3) with K <sub>d</sub> s of 0.129 and 0.077 μM, respectively <sup>[1]</sup> .		
IC <sub>50</sub> & Target	IC50: 0.26 μM (MLLT1 YD) <sup>[1]</sup> Kd: 0.077 μM (MLLT3 YD), 0.129 μM (MLLT1 YD) <sup>[1]</sup>		

# Product Data Sheet

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In Vivo	SGC-iMLLT shows moderate metabolic resistance with $t_{1/2}$ of 53 min and 48 % remaining after 60 min, and the primary process for metabolism is N demethylation <sup>[1]</sup> .
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### **CUSTOMER VALIDATION**

• Mol Carcinog. 2023 May 5.

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#### REFERENCES

[1]. Moustakim M, et al. Discovery of an MLLT1/3 YEATS Domain Chemical Probe. Angew Chem Int Ed Engl. 2018 Dec 10;57(50):16302-16307.

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

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