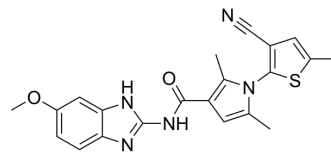


## KY386

Cat. No.:	HY-156418	
CAS No.:	2787598-01-8	
Molecular Formula:	C <sub>21</sub> H <sub>19</sub> N <sub>5</sub> O <sub>2</sub> S	
Molecular Weight:	405.47	
Target:	DNA/RNA Synthesis	
Pathway:	Cell Cycle/DNA Damage	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (246.63 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	2.4663 mL	12.3314 mL	24.6627 mL
			5 mM	0.4933 mL	2.4663 mL	4.9325 mL
	10 mM	0.2466 mL	1.2331 mL	2.4663 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.17 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	KY386 is a potent, selective inhibitor of DHX33 helicase, with the IC <sub>50</sub> of 19 nM. KY386 inhibits U251-MG cells (DHX33-overexpressing cancer cell strain) with IC <sub>50</sub> of 20 nM and shows potent anti-cancer activity and moderate metabolic stability [1].
IC <sub>50</sub> & Target	19 nM <sup>[1]</sup>

### REFERENCES

[1]. Wang Y, et al. Development of small molecule inhibitors targeting RNA helicase DHX33 as anti-cancer agents [published online ahead of print, 2023 Oct 12]. Bioorg Med Chem Lett. 2023;96:129505. doi:10.1016/j.bmcl.2023.129505

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

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