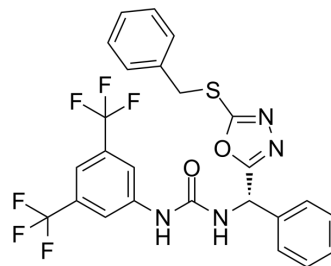


## RECQL5-IN-1

<b>Cat. No.:</b>	HY-145685		
<b>CAS No.:</b>	2718170-45-5		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>18</sub> F <sub>6</sub> N <sub>4</sub> O <sub>2</sub> S		
<b>Molecular Weight:</b>	552.49		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (452.50 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8100 mL	9.0499 mL	18.0999 mL
	5 mM	0.3620 mL	1.8100 mL	3.6200 mL
	10 mM	0.1810 mL	0.9050 mL	1.8100 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

RECQL5-IN-1 (Compound 4a) acts as an orally effective RECQL5 inhibitor (targeting both enzymatic and nonenzymatic domain). RECQL5-IN-1 is a potent inhibitor of RECQL5 helicase activity (IC<sub>50</sub>=46.3 nM). RECQL5-IN-1 inhibits RECQL5-WT cells and RECQL5-KO2 cells with IC<sub>50</sub>s of 4.8 μM and 19.6 μM, respectively. RECQL5-IN-1 can be used for the research of breast cancer<sup>[1]</sup>.

### REFERENCES

[1]. Saikat Chakraborty, et al. Targeting RECQL5 Functions, by a Small Molecule, Selectively Kills Breast Cancer in Vitro and in Vivo. J Med Chem. 2021 Feb 11;64(3):1524-1544.

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

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