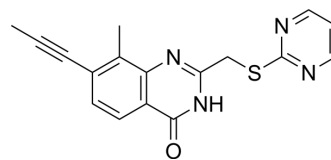


## PARP11 inhibitor ITK7

<b>Cat. No.:</b>	HY-125218
<b>CAS No.:</b>	2411890-36-1
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>14</sub> N <sub>4</sub> OS
<b>Molecular Weight:</b>	322.38
<b>Target:</b>	PARP
<b>Pathway:</b>	Cell Cycle/DNA Damage; Epigenetics
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 4 mg/mL (12.41 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
1 mM		3.1019 mL	15.5096 mL	31.0193 mL
5 mM		0.6204 mL	3.1019 mL	6.2039 mL
10 mM		0.3102 mL	1.5510 mL	3.1019 mL

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

### BIOLOGICAL ACTIVITY

#### Description

PARP11 inhibitor ITK7 (ITK7) is a potent and selective PARP11 inhibitor. PARP11 inhibitor ITK7 can potently inhibit PARP11 with an IC<sub>50</sub> value of 14 nM. PARP11 inhibitor ITK7 can be used for the research of cellular localization<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 14 nM (PARP11); 13 nM (PARP11-dependent auto-MARylation)<sup>[1]</sup>

#### In Vitro

PARP11 inhibitor ITK7 (ITK7) can potently inhibit PARP11 with an IC<sub>50</sub> value of 14 nM<sup>[1]</sup>.

ITK7 exhibits a dose-dependent inhibition of PARP11-dependent auto-MARylation with an EC<sub>50</sub> value of 13 nM<sup>[1]</sup>.

ITK7 (0, 0.03, 0.1, 0.3, 1, 3 μM; 3 h) inhibits PARP11 auto-MARylation activity in cells and causes PARP11 to dissociate from the nuclearenvelope<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis<sup>[1]</sup>

Cell Line:	HeLa cells
Concentration:	0, 0.03, 0.1, 0.3, 1, 3 μM

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Incubation Time:	3 h
Result:	Inhibited GFP-PARP11 auto-MARylation activity in a dose-dependent manner in HeLa cells.

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## REFERENCES

[1]. Kirby, Ilsa T et al. A Potent and Selective PARP11 Inhibitor Suggests Coupling between Cellular Localization and Catalytic Activity. Cell chemical biology vol. 25,12 (2018): 1547-1553.e12.

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

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