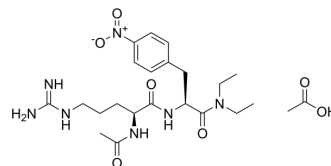


## ATIC-IN-1 acetate

Cat. No.:	HY-150252A
Molecular Formula:	C <sub>23</sub> H <sub>37</sub> N <sub>7</sub> O <sub>7</sub>
Molecular Weight:	523.58
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (95.50 mM; Need ultrasonic)  
H<sub>2</sub>O : 50 mg/mL (95.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9099 mL	9.5496 mL	19.0993 mL
	5 mM	0.3820 mL	1.9099 mL	3.8199 mL
	10 mM	0.1910 mL	0.9550 mL	1.9099 mL

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

### BIOLOGICAL ACTIVITY

#### Description

ATIC-IN-1 (compound 14) acetate is an inhibitor targeting to Aminoimidazole carboxamide ribonucleotide transformylase/inosine monophosphate cyclohydrolase (ATIC) dimerization with a K<sub>i</sub> value of 685 nM. ATIC dimerization is crucial for its aminoimidazole carboxamide ribonucleotide (AICAR) transformylase activity. ATIC-IN-1 acetate exhibits anti-tumor activity via reduction in cell numbers and cell division rates<sup>[1]</sup>.

#### In Vitro

ATIC-IN-1 acetate (10 μM, 50 μM) is a specific inhibitor, and shows nonspecific aggregate mechanism in the present of 1 mg/mL and 10 mg/mL BSA<sup>[1]</sup>.  
ATIC-IN-1 acetate (100-500 μM; 48 h) inhibits the proliferation of MCF-7 cells<sup>[1]</sup>.  
ATIC-IN-1 acetate (250 μM; 24-72 h) results the reduction of division rather than leads to cell death increase<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Spurr IB, et al. Targeting tumour proliferation with a small-molecule inhibitor of AICAR transformylase homodimerization. *Chembiochem*. 2012 Jul 23;13(11):1628-34.

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

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