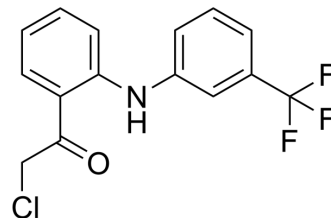


## TED-347

<b>Cat. No.:</b>	HY-125269		
<b>CAS No.:</b>	2378626-29-8		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>11</sub> ClF <sub>3</sub> NO		
<b>Molecular Weight:</b>	313.7		
<b>Target:</b>	YAP		
<b>Pathway:</b>	Stem Cell/Wnt		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (318.78 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.1878 mL	15.9388 mL	31.8776 mL
		5 mM	0.6376 mL	3.1878 mL	6.3755 mL
10 mM		0.3188 mL	1.5939 mL	3.1878 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (19.92 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.97 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	TED-347 is a potent, irreversible, covalent and allosteric inhibitor at YAP-TEAD protein-protein interaction with an EC <sub>50</sub> of 5.9 μM for TEAD4/Yap1 protein-protein interaction. TED-347 specifically and covalently bonds with Cys-367 within the central pocket of TEAD4 with a K <sub>i</sub> of 10.3 μM. TED-347 blocks TEAD transcriptional activity and has antitumor activity <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 5.9 μM (TEAD4/Yap1 protein-protein interaction) <sup>[1]</sup>
<b>In Vitro</b>	TED-347 (0.5-100 μM; 48 hours) inhibits GBM43 cancer cell viability <sup>[1]</sup> . TED-347 (5 μM; 48 hours) inhibits co-immunoprecipitation of Myc-tagged TEAD4 with FLAG-tagged Yap1 <sup>[1]</sup> . TED-347 (10 μM; 48 hours) shows a significant reduction in CTGF transcript levels <sup>[1]</sup> . TED-347 (0.5-100 μM; 24 hours) reduces reporter activity in cells transfected with a TEAD reporter. TED-347 (0.5-100 μM) also

inhibits TEAD4 transcriptional activity in GBM43 cells<sup>[1]</sup>.

TED-347 is selective for TEADs and inhibits TEAD2 with the same efficacy. TED-347 (0.1-100  $\mu$ M; 24-48 hours) inhibits TEAD4 binding to full-length Yap1 in dose- and time-dependent manner. TED-347 (1-100  $\mu$ M) shows no inhibition of uPAR uPA or Cav2.2  $\alpha$   $\beta$  protein-protein interactions. Non-covalent binding of TED-347 to TEAD4 exhibits little change to the TEAD4 Yap1 binding affinity<sup>[1]</sup>.

TED-347 has the maximum rate of inactivation of 0.038 hours, corresponding to a  $t_{1/2}^{\infty}$  of 18.2 hours<sup>[1]</sup>.

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

#### Cell Viability Assay<sup>[1]</sup>

Cell Line:	GBM43 glioblastoma cell lines
Concentration:	0.5, 1, 10, 100 $\mu$ M
Incubation Time:	48 hours
Result:	Inhibited GBM43 cancer cell viability and inhibited GBM43 cell viability by 30% at 10 $\mu$ M.

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

Cell Line:	HEK-293 cells
Concentration:	5 $\mu$ M
Incubation Time:	48 hours
Result:	Showed a significant loss of co-immunoprecipitation of Myc-tagged TEAD4 with FLAG-tagged Yap1

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

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RT-PCR<sup>[1]</sup>

Fax: 609-228-5909

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Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Cell Line:	HEK-293 cells
Concentration:	10 $\mu$ M
Incubation Time:	48 hours
Result:	Showed a significant reduction in CTGF transcript levels versus control cells and had no inhibition on TEAD mutant transcriptional activity and protein-protein interactions in cell culture.

## CUSTOMER VALIDATION

- J Exp Clin Cancer Res. 2021 Mar 1;40(1):88.
- Clin Exp Dermatol. 2022 Aug 1.
- FEBS Lett. 2021 Dec 2.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Khuchtumur Bum-Erdene, et al. Small-Molecule Covalent Modification of Conserved Cysteine Leads to Allosteric Inhibition of the TEAD $\times$ Yap Protein-Protein Interaction. Cell Chem Biol. 2019 Mar 21;26(3):378-389.e13.