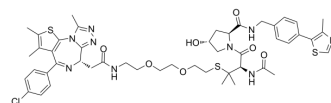


## AT6

<b>Cat. No.:</b>	HY-112375
<b>CAS No.:</b>	2098836-50-9
<b>Molecular Formula:</b>	C <sub>48</sub> H <sub>58</sub> ClN <sub>9</sub> O <sub>7</sub> S <sub>3</sub>
<b>Molecular Weight:</b>	1004.68
<b>Target:</b>	PROTACs
<b>Pathway:</b>	PROTAC
<b>Storage:</b>	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (99.53 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	0.9953 mL	4.9767 mL	9.9534 mL
		5 mM	0.1991 mL	0.9953 mL	1.9907 mL
	10 mM	0.0995 mL	0.4977 mL	0.9953 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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (4.98 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (4.98 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (4.98 mM); Clear solution				

## BIOLOGICAL ACTIVITY

<b>Description</b>	AT6 is a PROTAC AT1 analogue, which is a PROTAC connected by ligands for von Hippel-Lindau and BRD4 with highly selectivity to bromodomain (Brd4).
<b>In Vitro</b>	PROTACs (proteolysis-targeting chimaeras) are bifunctional molecules that recruit a target protein in proximity to an E3 ubiquitin ligase to trigger protein degradation. Structural elucidation of the key ternary ligase: PROTAC: target species and how this impacts target degradation selectivity remains elusive. The ligand folds into itself to allow formation of specific intermolecular interactions in the ternary complex. Isothermal titration calorimetry studies, supported by surface mutagenesis and proximity assays, are consistent with pronounced cooperative formation of ternary complexes with Brd4

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BD2. Structure-based-designed compound AT1 exhibits highly selective depletion of Brd4 in cells<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Gadd MS, et al. Structural basis of PROTAC cooperative recognition for selective protein degradation. Nat Chem Biol. 2017 May;13(5):514-521.

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

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