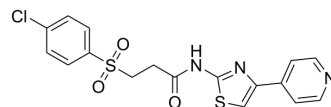


## BRD7586

Cat. No.:	HY-148730		
CAS No.:	895460-70-5		
Molecular Formula:	C <sub>17</sub> H <sub>14</sub> ClN <sub>3</sub> O <sub>3</sub> S <sub>2</sub>		
Molecular Weight:	407.89		
Target:	CRISPR/Cas9		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (24.52 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4516 mL	12.2582 mL	24.5164 mL
		5 mM	0.4903 mL	2.4516 mL	4.9033 mL
10 mM		0.2452 mL	1.2258 mL	2.4516 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.45 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.45 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	BRD7586 is a cell-permeable small-molecule inhibitor of SpCas9. BRD7586 is the smallest known anti-CRISPR <sup>[1]</sup> .
In Vitro	BRD7586 specifically engages SpCas9 but not Cas12a in cells <sup>[1]</sup> . BRD7586 (0-20 μM; 24 h) dose-dependently inhibits SpCas9 in the HiBiT-knock-in assay in HEK293T cells <sup>[1]</sup> . BRD7586 (20 μM; 48 h) enhances the ratio of on-target versus off-target in HEK293T cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

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