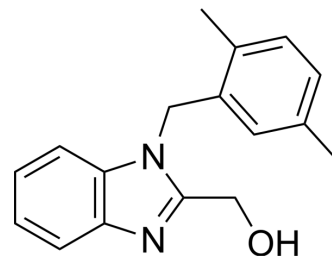


## UCB-6876

Cat. No.:	HY-156454
CAS No.:	637324-45-9
Molecular Formula:	C <sub>17</sub> H <sub>18</sub> N <sub>2</sub> O
Molecular Weight:	266.34
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (375.46 mM; ultrasonic and warming and heat to 80°C)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.7546 mL	18.7730 mL	37.5460 mL
		5 mM	0.7509 mL	3.7546 mL	7.5092 mL
	10 mM	0.3755 mL	1.8773 mL	3.7546 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: 2.5 mg/mL (9.39 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (9.39 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	UCB-6876 is a TNF $\alpha$ inhibitor and binds to asymmetrical crystal form of the TNF trimer ( $K_D=222 \mu\text{M}$ ) <sup>[1][2]</sup> .
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### REFERENCES

[1]. Eguida M, et al. Unexpected similarity between HIV-1 reverse transcriptase and tumor necrosis factor binding sites revealed by computer vision. J Cheminform. 2021 Nov 23;13(1):90.

[2]. O'Connell J, et al. Small molecules that inhibit TNF signalling by stabilising an asymmetric form of the trimer. Nat Commun. 2019 Dec 19;10(1):5795.

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

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