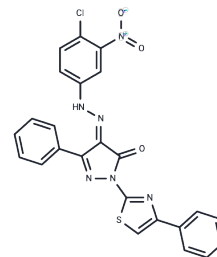


C 87

## Chemical Properties

CAS No. : 332420-90-3  
 Formula: C<sub>24</sub>H<sub>15</sub>ClN<sub>6</sub>O<sub>3</sub>S  
 Molecular Weight: 502.93  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	C 87 is a small-molecule TNF- $\alpha$ inhibitor. C 87 directly binds to TNF $\alpha$ , potently inhibits TNF- $\alpha$ -induced cytotoxicity (IC <sub>50</sub> = 8.73 $\mu$ M), and effectively blocks TNF- $\alpha$ -triggered signaling activities.
Targets(IC <sub>50</sub> )	TNF
In vitro	C 87 reduces the activity of c-Jun N-terminal kinase (JNK) in L929 cells. C 87 prevents the degradation of I $\kappa$ B $\alpha$ in cells treated with TNF- $\alpha$ and potently blocks multiple signaling transduction pathways and downstream target gene activation triggered by TNF- $\alpha$ . C 87 exhibits good solubility and consistent dose-dependent functions in vitro. C 87 completely blocks the TNF $\alpha$ -induced activation of caspase-3 and caspase-8[1].
In vivo	In mice, the level of alanine transaminase and aspartate transaminase is consistently reduced. C 87 markedly reduces injuries to the liver and improves animal survival. C 87 injection delays the incidence of death and increases the survival rate by two fo

## Solubility Information

Solubility	DMSO: 5.06 mg/mL (10.06 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9883 mL	9.9417 mL	19.8835 mL
5 mM	0.3977 mL	1.9883 mL	3.9767 mL
10 mM	0.1988 mL	0.9942 mL	1.9883 mL
50 mM	0.0398 mL	0.1988 mL	0.3977 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Ma L, et al. A novel small-molecule tumor necrosis factor  $\alpha$  inhibitor attenuates inflammation in a hepatitis mouse model. *J Biol Chem*. 2014 May 2;289(18):12457-66.

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