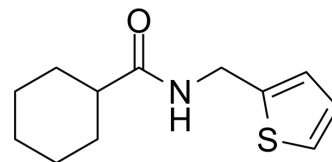


## Necroptosis-IN-3

<b>Cat. No.:</b>	HY-148454		
<b>CAS No.:</b>	547698-18-0		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>17</sub> NOS		
<b>Molecular Weight:</b>	223.33		
<b>Target:</b>	Necroptosis; 11β-HSD		
<b>Pathway:</b>	Apoptosis; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (447.77 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		4.4777 mL	22.3884 mL	44.7768 mL
		<b>5 mM</b>		0.8955 mL	4.4777 mL	8.9554 mL
<b>10 mM</b>		0.4478 mL	2.2388 mL	4.4777 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: ≥ 2.5 mg/mL (11.19 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.19 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.19 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Necroptosis-IN-3 (Compound 69) is a necroptosis inhibitor that inhibits TNF-α induced necroptosis <sup>[1]</sup> . Necroptosis-IN-3 (Compound STX1638) also inhibits 11β-HSD1 <sup>[2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Necroptosis <sup>[1]</sup> , 11β-HSD1 <sup>[2]</sup>
<b>In Vitro</b>	TNF-α-IN-8 (Compound 69) (0.030-100 μM; 24 h) inhibits TNF-α induced necroptosis in FADD-deficient variant of human Jurkat T cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

Cell Line:	Fadd-/- Jurkat and L929 cells, treated with 10 ng/mL of human TNF- $\alpha$
Concentration:	0.030-100 $\mu$ M
Incubation Time:	24 h
Result:	Showed necroptosis inhibitory activity with an ED <sub>50</sub> of 7.724 $\mu$ M for Fadd-/- Jurkat cells and was inactive for L929 cells.

## REFERENCES

[1]. Junying Yuan, et al. Small molecule inhibitors of necroptosis. Patent US20120122889A1.

[2]. Nigel Vicker, et al. Compound. Patent US20100120789A1.

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

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