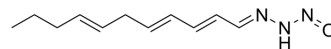


## Triacsin C

<b>Cat. No.:</b>	HY-N6707		
<b>CAS No.:</b>	76896-80-5		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>17</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	207.27		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

Methanol : 5 mg/mL (24.12 mM; Need ultrasonic and warming)  
 DMSO : 5 mg/mL (24.12 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.8246 mL	24.1231 mL	48.2462 mL
	5 mM	0.9649 mL	4.8246 mL	9.6493 mL
	10 mM	0.4825 mL	2.4123 mL	4.8246 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Triacsin C (WS 1228A), a natural intracellular long-chain acyl-CoA synthetases (ACSL) inhibitor, is from *Streptomyces aureofaciens*. Triacsin C inhibits TAG accumulation into lipid droplets (LD) by suppressing ACSL activity<sup>[1]</sup>. Triacsin C is found to be highly effective against rotavirus replication<sup>[2]</sup>.

#### IC<sub>50</sub> & Target

ACSL<sup>[1]</sup>

### REFERENCES

[1]. Dechandt CRP, et al. Triacsin C reduces lipid droplet formation and induces mitochondrial biogenesis in primary rat hepatocytes. *J Bioenerg Biomembr.* 2017 Oct;49(5):399-411.

[2]. Kim Y, et al. Novel triacsin C analogs as potential antivirals against rotavirus infections. *Eur J Med Chem.* 2012 Apr;50:311-8.

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

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