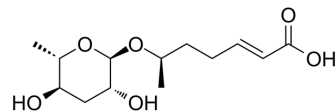


## Ascr#7

Cat. No.:	HY-N9441
CAS No.:	1139837-37-8
Molecular Formula:	C <sub>13</sub> H <sub>22</sub> O <sub>6</sub>
Molecular Weight:	274.31
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (729.10 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.6455 mL	18.2276 mL	36.4551 mL
		5 mM	0.7291 mL	3.6455 mL	7.2910 mL
		10 mM	0.3646 mL	1.8228 mL	3.6455 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (18.23 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Ascr#7, an ascaroside, is a hormone of nematodes. Ascr#7 is expressed during nematode development. Ascarosides can induce formation of long-lived and highly stress resistant dauer larvae <sup>[1]</sup> .
In Vitro	Ascarosides are often referred to as “dauer pheromones” because most of them induce formation of long-lived and highly stress resistant dauer larvae <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Kaplan F, et, al. Ascaroside expression in *Caenorhabditis elegans* is strongly dependent on diet and developmental stage. *PLoS One*. 2011 Mar 15;6(3):e17804.

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

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