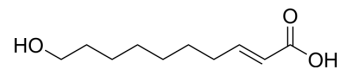


## 10-Hydroxy-2-decenoic acid

Cat. No.:	HY-W592871		
CAS No.:	765-01-5		
Molecular Formula:	C <sub>10</sub> H <sub>18</sub> O <sub>3</sub>		
Molecular Weight:	186.25		
Target:	mTOR		
Pathway:	PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 250 mg/mL (1342.28 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Solvent	1 mg	5 mg	10 mg
	Mass			
Preparing Stock Solutions	1 mM	5.3691 mL	26.8456 mL	53.6913 mL
	5 mM	1.0738 mL	5.3691 mL	10.7383 mL
	10 mM	0.5369 mL	2.6846 mL	5.3691 mL

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

### BIOLOGICAL ACTIVITY

#### Description

10-Hydroxy-2-decenoic acid (10-HDA) is the major lipid component of royal jelly produced by honeybees. 10-Hydroxy-2-decenoic acid has several health-beneficial effects in mammals, such as antitumor activity, anti-inflammatory activity, and antiangiogenic activity. 10-Hydroxy-2-decenoic acid also extends the lifespan of *C. elegans*<sup>[1]</sup>.

### REFERENCES

[1]. Yoko Honda, et al. 10-Hydroxy-2-decenoic Acid, the Major Lipid Component of Royal Jelly, Extends the Lifespan of *Caenorhabditis elegans* through Dietary Restriction and Target of Rapamycin Signaling. *J Aging Res.* 2015;2015:425261.

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

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