10-Hydroxy-2-decenoic acid

Cat. No.: HY-W592871

CAS No.: 765-01-5

Molecular Formula: $C_{10}H_{18}O_3$

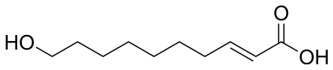
Molecular Weight: 186.25

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.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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[1].

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.

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

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