Octenyl succinic anhydride

Cat. No.: HY-145942

CAS No.: 26680-54-6

Molecular Formula: $C_{12}H_{18}O_3$

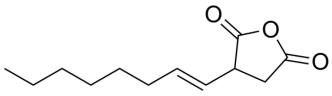
Molecular Weight: 210.27

Target: Biochemical Assay Reagents

Pathway: Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (475.58 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.7558 mL	23.7789 mL	47.5579 mL
	5 mM	0.9512 mL	4.7558 mL	9.5116 mL
	10 mM	0.4756 mL	2.3779 mL	4.7558 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Octenyl succinic anhydride can be used to esterify Starch to yield a hydrocolloid with amphiphilic properties, octenyl succinylated starch (OS-starch). Octenyl succinic anhydride (OSA) modification affects interaction between molecules on the outer surfaces of two starch granules by altering molecular structures on the outer surfaces[1].

REFERENCES

[1]. Wei Gao, et al. Synthetic mechanism of octenyl succinic anhydride modified corn starch based on shells separation pretreatment. Int J Biol Macromol. 2021 Mar 1;172:483-489.

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

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