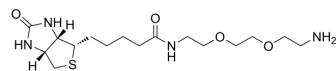


Biotin-DADOO

Cat. No.:	HY-D0980		
CAS No.:	138529-46-1		
Molecular Formula:	C ₁₆ H ₃₀ N ₄ O ₄ S		
Molecular Weight:	374.5		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (267.02 mM; Need ultrasonic)
 H₂O : ≥ 100 mg/mL (267.02 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		2.6702 mL	13.3511 mL	26.7023 mL
	5 mM		0.5340 mL	2.6702 mL	5.3405 mL
	10 mM		0.2670 mL	1.3351 mL	2.6702 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (267.02 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Biotin-DADOO is a biotinylation reagent, which can be used to synthesize a biotin-estradiol conjugate (i.e., biotin-DADOO-estradiol) to develop a direct, broad range enzyme immunoassay to measure plasma estradiol concentrations.

REFERENCES

[1]. You L, et al. Scutellarin inhibits Hela cell growth and glycolysis by inhibiting the activity of pyruvate kinase M2. Bioorg Med Chem Lett. 2017 Dec 15;27(24):5404-5408.

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

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