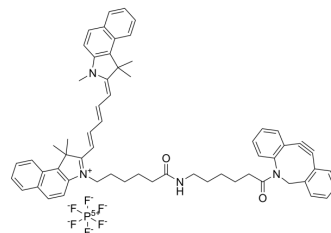


Dibenzocyclooctyne-Cy5.5

Cat. No.:	HY-D1537
CAS No.:	2643308-61-4
Molecular Formula:	C ₆₁ H ₆₃ F ₆ N ₄ O ₂ P
Molecular Weight:	1029.14
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (48.58 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.9717 mL	4.8584 mL	9.7169 mL
		5 mM	0.1943 mL	0.9717 mL	1.9434 mL
	10 mM	0.0972 mL	0.4858 mL	0.9717 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: ≥ 1.25 mg/mL (1.21 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Dibenzocyclooctyne-Cy5.5 (DBCO-Cy5.5) is a fluorescent dye. Dibenzocyclooctyne-Cy5.5 can be used to syntheses calcium-binding near-infrared fluorescent nanoprobe for bone tissue imaging ^[1] .
--------------------	--

REFERENCES

[1]. Yong Geun Lim, et al. Calcium-binding near-infrared fluorescent nanoprobe for bone tissue imaging. Journal of Industrial and Engineering Chemistry. Volume 89, 25 September 2020, Pages 442-447

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA