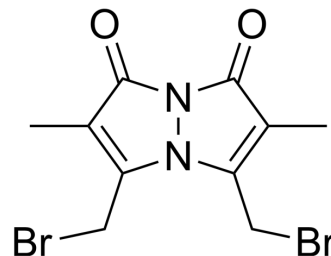


Dibromobimane

Cat. No.:	HY-D1423
CAS No.:	68654-25-1
Molecular Formula:	C ₁₀ H ₁₀ Br ₂ N ₂ O ₂
Molecular Weight:	350.01
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (285.71 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	2.8571 mL	14.2853 mL	28.5706 mL
			5 mM	0.5714 mL	2.8571 mL	5.7141 mL
10 mM	0.2857 mL	1.4285 mL	2.8571 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 (7.14 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Dibromobimane is a thiol-selective fluorescent imaging agent. Dibromobimane is used to crosslink cysteine- and homocysteine-containing peptides ^[1] .
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REFERENCES

[1]. Aimee J Horsfall, et al. A Bimane-Based Peptide Staple for Combined Helical Induction and Fluorescent Imaging. *Chembiochem*. 2020 Dec 1;21(23):3423-3432.

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

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