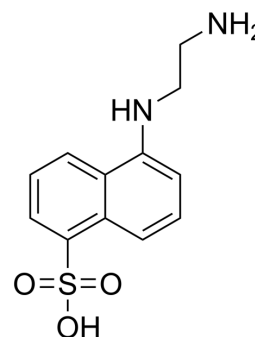


EDANS

Cat. No.:	HY-D1080
CAS No.:	50402-56-7
Molecular Formula:	C ₁₂ H ₁₄ N ₂ O ₃ S
Molecular Weight:	266.32
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°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 : 13.89 mg/mL (52.16 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions			1 mg	5 mg
		1 mM		3.7549 mL	18.7744 mL
		5 mM		0.7510 mL	3.7549 mL
	10 mM		0.3755 mL	1.8774 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: ≥ 1.39 mg/mL (5.22 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.39 mg/mL (5.22 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.39 mg/mL (5.22 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	EDANS (1,5-EDANS) is a novel and quenched fluorogenic substrate for assaying retroviral protease by resonance energy transfer (RET) ^[1] .
In Vitro	The peptide sequence of EDANS is derived from a natural processing site for HIV-1 PR ^[1] . Incubation of recombinant HIV-1 PR with the fluorogenic substrate resulted in specific cleavage at the Tyr-Pro bond and a time-dependent increase in fluorescence intensity that was linearly related to the extent of substrate hydrolysis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- STAR Protoc. 2023 May 1.

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REFERENCES

[1]. E D Matayoshi, et al. Novel fluorogenic substrates for assaying retroviral proteases by resonance energy transfer. Science. 1990 Feb 23;247(4945):954-8.

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

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