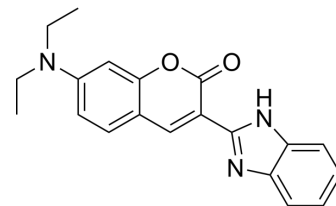


Coumarin 7

Cat. No.:	HY-125750
CAS No.:	27425-55-4
Molecular Formula:	C ₂₀ H ₁₉ N ₃ O ₂
Molecular Weight:	333.38
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 : 25 mg/mL (74.99 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.9996 mL	14.9979 mL	29.9958 mL	
5 mM	0.5999 mL	2.9996 mL	5.9992 mL	
10 mM	0.3000 mL	1.4998 mL	2.9996 mL	

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

BIOLOGICAL ACTIVITY

Description

Coumarin 7 is a coumarin laser dye in plants in the form of glycosides^{[1][2]}.

In Vitro

Coumarin 7 has the maximum CL intensity ($I_{\max}=0.39 \times 10^{-9}$ photon/sml), total amount of light ($S=0.07 \times 10^{-10}$ photon/mL) and the yield of CL ($\phi_{\text{CL}}=0.12 \times 10^8$ Einstein/mol)^[2]
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sowrirajan Chandrasekaran, et al. Interaction of Coumarin 7 and Coumarin 314 with C-hexylpyrogallol[4]arene. 25 January 2014

[2]. Kazakov DV, et al. Chemiluminescence in the reaction of 1,2,4,5-tetraoxanes with ferrous ions in the presence of xanthene dyes: fundamentals and perspectives of analytical applications. Photochem Photobiol Sci. 2019 May 15;18(5):1130-1137.

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