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COUMARIN 521

Synonym: 10-acetyl-2,3,6,7-tetrahydro-1H,5H,11H-[1]benzopyrano[6,7,8-ij]quinolizin-11-one; Coumarin 334

Catalog No.: 05210

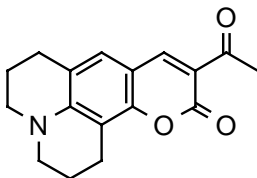
CAS No.: 55804-67-6

MW: 283.33

Chemical Formula: C₁₇H₁₇NO₃

Appearance: Orange crystals

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
514	504-560	FL ⁶⁹	Methanol	6 x 10 ⁻⁵	452 ^e	495 ^e
520	505-565	FL ⁶⁹	MeOH/H ₂ O	8 x 10 ⁻⁵		
521		FL ¹⁹	Ethanol			
520	504-562	Ar (458 preferred, 488 can be used, Coherent 699 ring laser) ²³⁶	MeOH/EG:1/21	~450mg/l		

MeOH/H₂O=methanol/water, e=ethanol

REFERENCES:

19. New Coumarin Dyes with Rigidized Structure for Flashlamp-Pumped Dye Lasers, G.A. Reynolds and K.H. Drexhage, *Optics Commun.*, 13(3), 222 (1975)
69. Candela Laser Corporation, 530 Boston Post Road, Wayland, MA 01778-1833
236. Efficient and Stable Operation of an Ar⁺-pumped Continuous-Wave Ring Laser from 505-560 nm using a Coumarin Laser Dye, L.E. Jusinski and C.A. Taatjes, *Rev. Sci. Instrum.*, 72(6), 2837 (2001); Notes: conversion efficiency 16%, high stability compared to rhodamine dyes.

For a current list of biology, biological stain, or biochemistry references for Coumarin 521 from PubMed, click on the following link:

[Coumarin 521 or Coumarin 334](#)