

## COUMARIN 525

**Synonym:** 10-(2-benzoxazolyl)-2,3,6,7-tetrahydro-1H,5H,11H-[1]benzopyrano[6,7,8-ij]quinolizin-11-one

**Catalog No.:** 05250

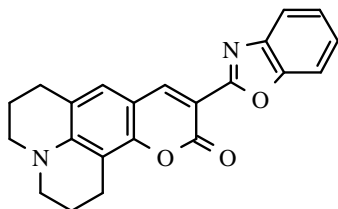
**CAS No.:** 87331-47-3

**MW:** 357.41

**Chemical Formula:** C<sub>22</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>

**Appearance:** Orange crystals

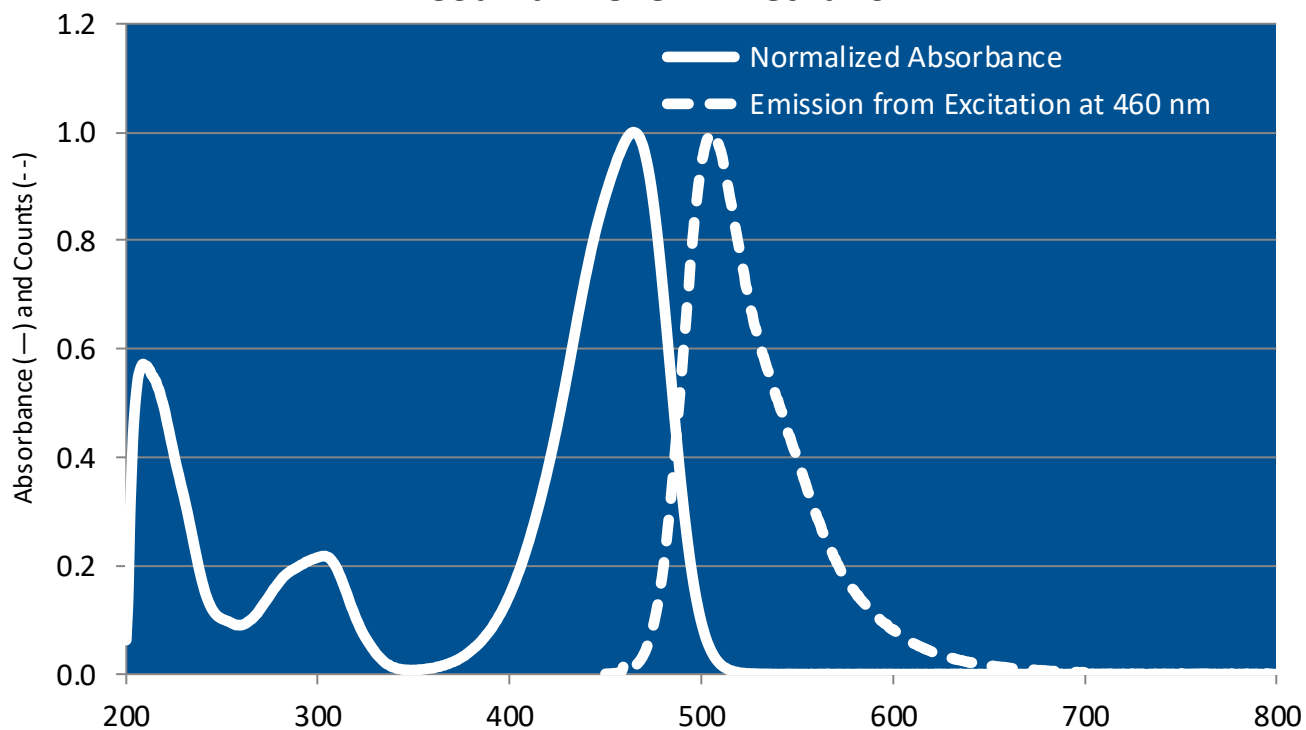
**Structure:**



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
533	525-541	FL(triaxial) <sup>157</sup>	Ethanol		462 <sup>e</sup>	504 <sup>e</sup>
545	537-553	FL(triaxial) <sup>157</sup>	EtOH/H <sub>2</sub> O, 1/1			
515	508-550	XeCl(308) <sup>158</sup>	Methanol	7 x 10 <sup>-3</sup>		

e = ethanol, EtOH/H<sub>2</sub>O=ethanol/water

### Coumarin 525 in Methanol



The information presented above is believed to be accurate but is not a specification. The customer is fully responsible for determining the suitability of this product for use in their application. Exciton, Inc. does not represent that the information is sufficient or complete for any specific application.

**Quantum Yields and Lifetimes**

<b>Absorbance (nm)</b>	<b>Emission (nm)</b>	<b>Quantum Yield (max = 1.0)</b>	<b>Solvent</b>	<b>Lifetime (ns)</b>	<b>References, Notes</b>
462	504	0.94	Ethanol		C-6a
474	512	0.89	Ethanol/Water (50:50)		C-6a

**REFERENCES:**

- 157. Lasing and Fluorescent Characteristics of Nine, New, Flashlamp-Pumpable, Coumarin Dyes in Ethanol:Water, A.N. Fletcher, D.E. Bliss and J.M. Kauffman, *Optics Commun.*, 47(1), 57 (1983)
- 158. Lasing Characteristics of the New Dyes in Methanol, W. Young, Lumonics, 105 Schneider Rd., Kanata (Ottawa), Ontario, Canada K2K 1Y3
- C-6a. Lasing and Fluorescent Characteristics of Nine, New, Flashlamp Pumpable, Coumarin Dyes in Ethanol and Ethanol:Water, A.N. Fletcher, D.E. Bliss, and J.M. Kauffman, *Optics Commun.*, 47(1), 57 (1983), [https://doi.org/10.1016/0030-4018\(83\)90336-X](https://doi.org/10.1016/0030-4018(83)90336-X) **Note A:** Under air

For a current list of biology, biological stain, or biochemistry references for Coumarin 525 from PubMed, click on the following link:

[Coumarin 525](#)