

COUMARIN 521T

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

Catalog No.: 05215

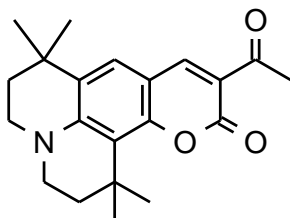
CAS No.: 114768-72-8

MW: 339.33

Chemical Formula: C₂₁H₂₅NO₃

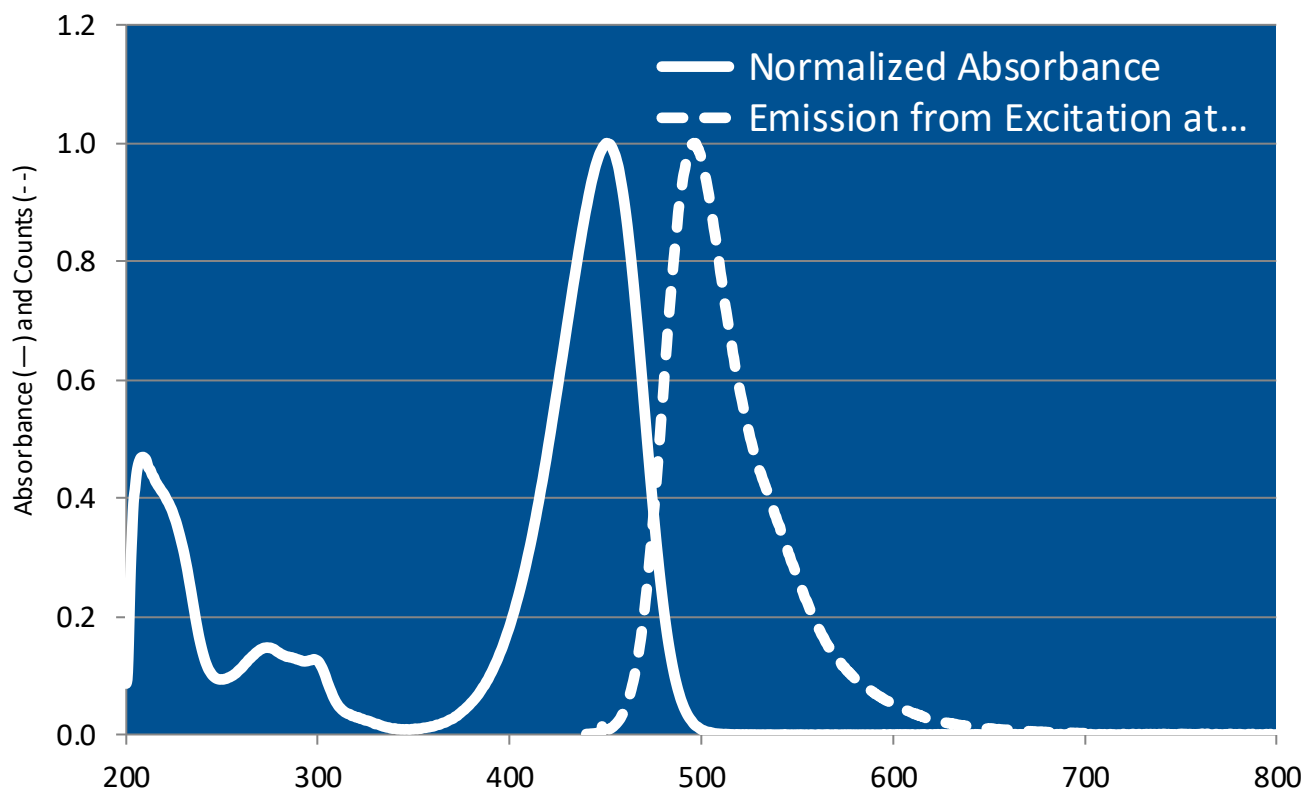
Appearance: Yellowish-orange

Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
	500-546(bb)	XeCl(308) ²⁴⁵	Ethanol	5 x 10 ⁻³	450 ^e	494 ^e

Coumarin 521T in Methanol





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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.

REFERENCES:

245. Lasing Characteristics of New Coumarin-Analog Dyes: Broadband and Narrow-Linewidth Performance, C.H. Chen, J. Fox, F. Duarte, and J. Ehrlich, *Appl. Optics* 27(3), 443 (1998); For Coumarin 504T/314T: broadband efficiency 18.1% versus Coumarin 504 at 15.3%. For Coumarin 521T/334T: broadband efficiency 12.4% versus 10.2% for Coumarin 521/Coumarin 334. Half-life measurements (coaxial flashlamp pumped dye laser) indicated Coumarin 504T/314T (1708kJ/L) to be about twice of Coumarin 504/314 (647kJ/L).

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

[Coumarin 521T or Coumarin 334T](#)