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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

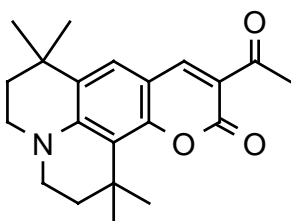
CAS No.: 114768-72-8

MW: 339.33

Chemical Formula: C₂₁H₂₅NO₃

Appearance: Yellowish-orange

Structure:



Max. Lasing Wavelength (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

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](#)