

LD 473

Synonym: 1,2,3,8-tetrahydro-1,2,3,3,8-pentamethyl-5-(trifluoromethyl)-7H-pyrrolo[3,2-g]quinolin-7-one

Catalog No.: 04730

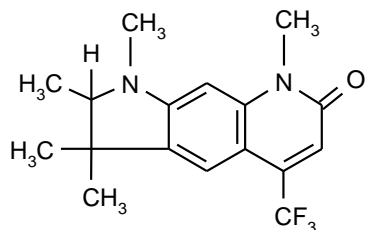
CAS No.: 58721-74-7

MW: 324.34

Chemical Formula: C₁₇H₁₉F₃N₂O

Appearance: Pale yellow crystals

Structure:

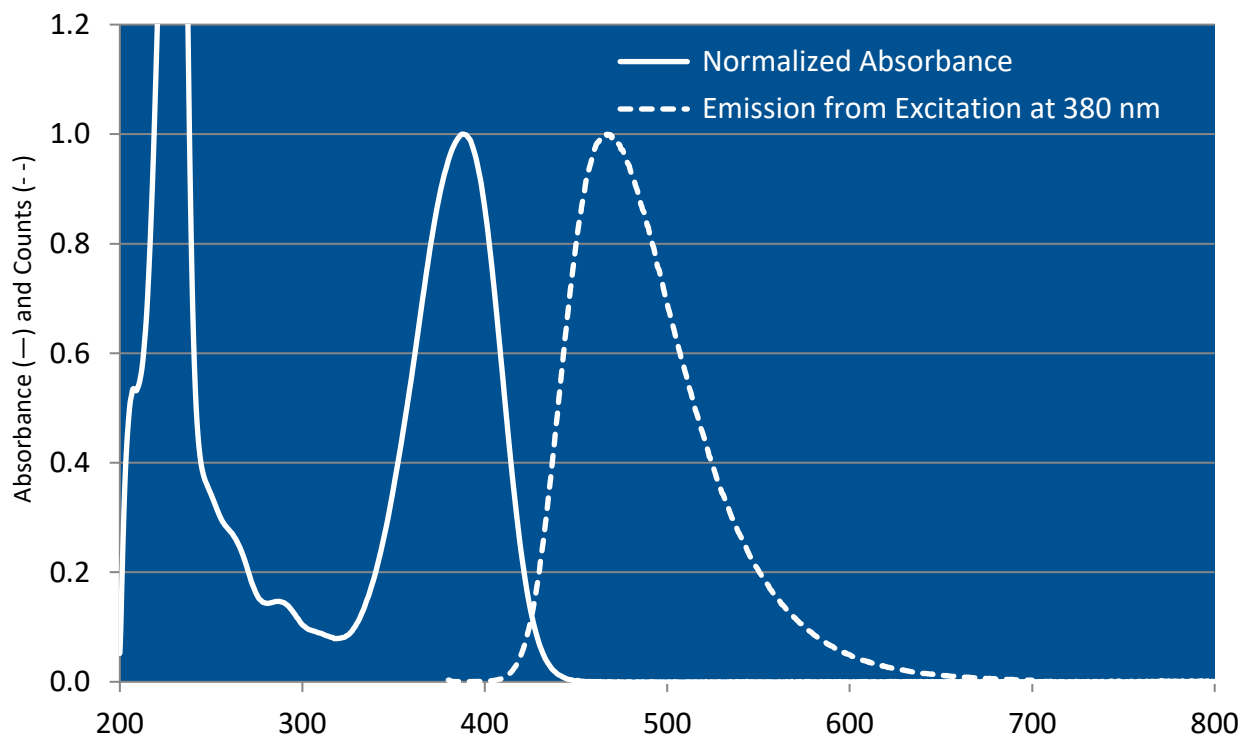


Lasing Wavelength

Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	Fl λ-max
472	451-506	FL ³	Ethanol	8 x 10 ⁻⁵	388 ^m	466 ^m
473		FL ¹⁸	Ethanol			
480	-470-510-	FL ¹²	MeOH/H ₂ O, 1/1	1.8 x 10 ⁻⁴		
486	454-522	FL ³	Methanol	8 x 10 ⁻⁵		
483	468-499	Nd:YAG(355) ¹⁰³	Methanol	8.5 x 10 ⁻⁴ (osc), 3.5 x 10 ⁻⁴ (amp)		
473	452-505	N ₂ (337) ⁹	Ethanol	1.2 x 10 ⁻²		

MeOH = Methanol, m = methanol

LD 473 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.

Quantum Yields and Lifetimes

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
388		0.8	Ethanol		C-5

REFERENCES:

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9. A. Williamson, private commun., 1977
12. Chromatix, 560 Oak Meade Parkway, Sunnyvale, CA 94086
18. New Laser Dyes with Blue-Green Emission, E.J. Schimitschek, J.A. Trias, P.R. Hammond, R.A. Henry and R.L. Atkins, *Optics Commun.*, 16(30), 313 (1976)
103. B. Rockney, private commun., 1979
- C-5. Laser Dye Stability. Part 5, Effect of Chemical Substituents of Bicyclic Dyes Upon Photodegradation Parameters, A.N. Fletcher and D.E. Bliss, *Appl. Phys.* 16, 289 (1978), <https://doi.org/10.1007/BF00885124>

For a current list of biology, biological stain, or biochemistry references for LD 473 from PubMed, click on the following link:

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