

DODC-I

Synonym: 3-ethyl-2-[5-(3-ethyl-2(3H)-benzoxazolylidene)-1,3-pentadienyl]-benzoxazolium iodide

Catalog No.: 06480

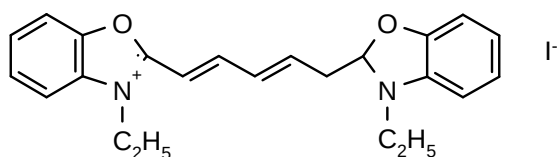
CAS No.: 14806-50-9

MW: 486.35

Chemical Formula: C₂₃H₂₃N₂O₂.I

Appearance: Purple powder

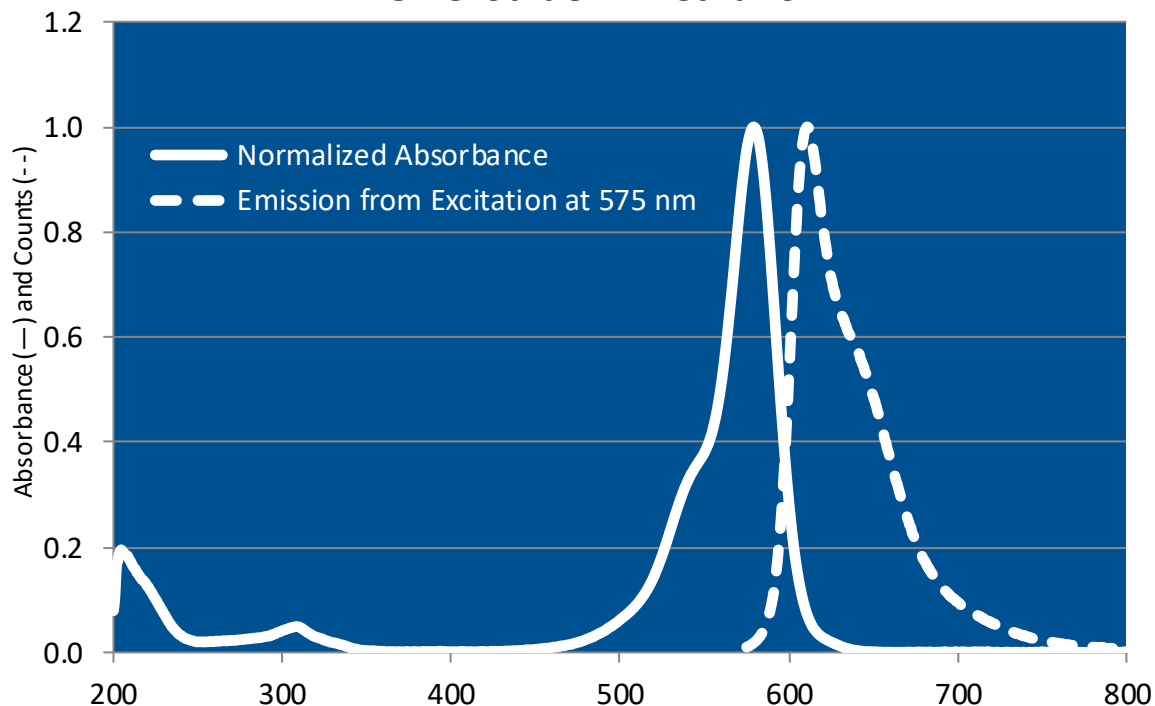
Structure:



Lasing Wavelength Max. (nm)	Range (nm)	Pump Source (nm)	Solvent	Concentration (molar)	Abs λ-max	FI λ-max
662		FL ³⁹	DMSO	2 x 10 ⁻⁴	582 ^e	610 ^e
648	632-671	Nd:YAG (532) ⁵³	Methanol			
658		Nd:Glass (532) ⁷⁸	Methanol	1 x 10 ⁻³		

DMSO=dimethylsulfoxide, e=ethanol

DODC Iodide 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

Absorbance (nm)	Emission (nm)	Quantum Yield (max = 1.0)	Solvent	Lifetime (ns)	References, Notes
585	610 620	0.87	Ethanol Dimethylsulfoxide	1.2	C-3 CD-3

REFERENCES:

39. Flashlamp-Excited Organic Liquid Laser in the Range from 342 to 889 nm, M. Maeda and Y. Miyazoe, *Jpn. J. Appl. Phys.*, 11(5), 692 (1972)
53. Continuum, 3150 Central Expressway, Santa Clara, CA 95051, formerly, Quantel International
78. New Dye Lasers covering the Visible Spectrum, F.P. Schäfer, W. Schmidt and K. Marth, *Appl. Phys. Lett.*, 24A, 280 (1967)
- C-3. Photoquenching Parameters for Commonly Used Laser Dyes, S. Speiser and N. Shakkour, *Appl. Phys. B* 38, 191 (1985), <https://doi.org/10.1007/BF00697483>
- CD-3. Absorption and Fluorescence Properties of Cyanine Dyes, R.C. Benson and H.A. Kues, *J. of Chem. & Engr. Data* 22(4), 379 (1977), <https://doi.org/10.1021/je60075a020>

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

[DODCI](#)