

#### **Lumiprobe Corporation**

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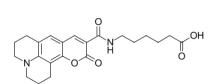
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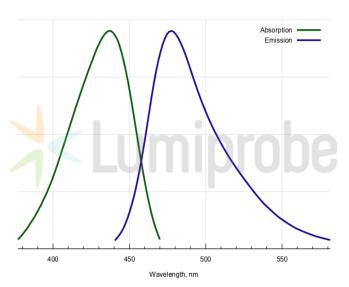
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# AF 343 (Coumarin)-X-carboxylic acid

http://www.lumiprobe.com/p/coumarin-343-x-carboxylic-acid

AF 343 (Coumarin) is a blue-emitting fluorophore used as a laser dye. The fluorophore can serve as a FRET donor for FAM (fluorescein).





#### Structure of AF 343 (Coumarin)-X-carboxylic acid

Absorption and emission spectra of AF 343 (Coumarin)

## **General properties**

Appearance: yellow crystals

Molecular weight: 398.45 CAS number: 946123-11-1

Molecular formula:  $C_{22}H_{26}N_2O_5$ 

IUPAC name:  $6-(\{4-0xo-3-oxa-13-azatetracyclo[7.7.1.02,7.013,17] heptadeca-1,5,7,9(17)-tetraen-5-yl\} carbonylamino) hexanoic and the second of the second$ 

Solubility: Well soluble in DMF, DMSO, moderately soluble in DCM, DCE, EtOAc, insoluble in diethyl ether.

Quality control: NMR 1H, HPLC-MS (95%)

Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Storage conditions:

Avoid prolonged exposure to light. Desiccate.

This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, Legal statement:

drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food

or pharmaceutical products, in medical devices or in cosmetic products.

### Spectral properties

Excitation/absorption 437

maximum, nm:

 $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 39000 Emission maximum, 477

nm:

Fluorescence quantum yield:

0.63

CF<sub>260</sub>: 0.29 CF<sub>280</sub>: 0.24