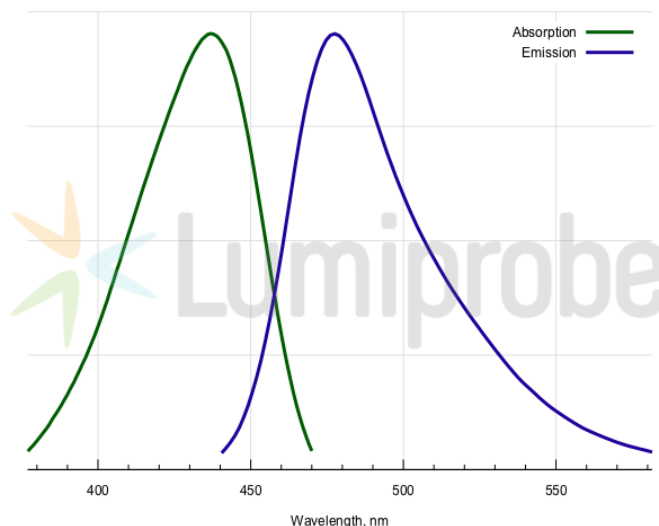
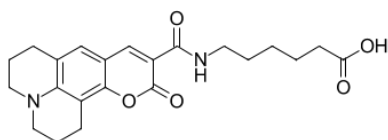


## AF 343 (Coumarin)-X-carboxylic acid

<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 <sub>22</sub> H <sub>26</sub> N <sub>2</sub> O <sub>5</sub>
IUPAC name:	6-({4-Oxo-3-oxa-13-azatetracyclo[7.7.1.0.2,7.0.13,17]heptadeca-1,5,7,9(17)-tetraen-5-yl}carbonylamino)hexanoic acid
Solubility:	Well soluble in DMF, DMSO, moderately soluble in DCM, DCE, EtOAc, insoluble in diethyl ether.
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, 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 maximum, nm:	437
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	39000
Emission maximum, nm:	477
Fluorescence quantum yield:	0.63
CF <sub>260</sub> :	0.29
CF <sub>280</sub> :	0.24