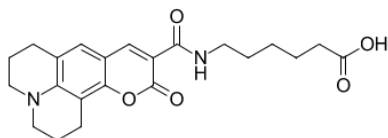
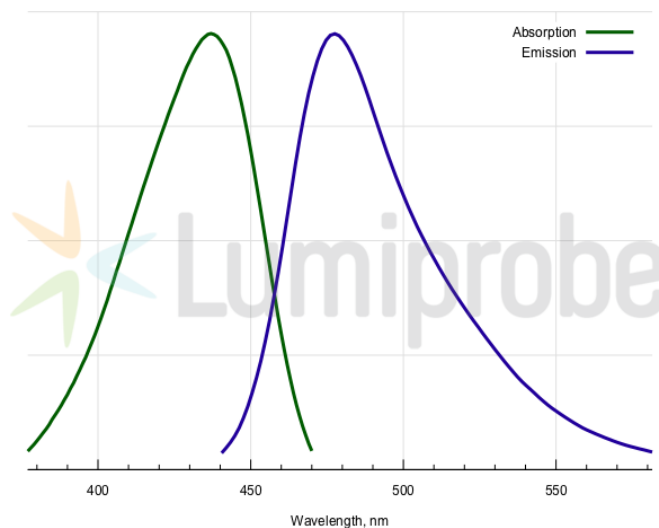


Coumarin 343 X carboxylic acid

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



Structure of Coumarin 343 X carboxylic acid



Absorption and emission spectra of Coumarin 343

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-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 1H , HPLC-MS (95%)

Storage conditions: Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

TN VED Code: 3204190000

Spectral properties

Excitation maximum, nm: 437

ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$: 39000

Emission maximum, nm: 477

Fluorescence quantum yield: 0.63

CF_{260} : 0.29

CF_{280} : 0.24