

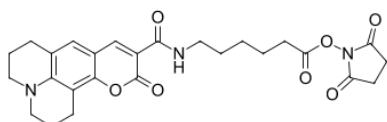
Coumarin 343 X NHS ester

<http://www.lumiprobe.com/p/coumarin-343-x-nhs-ester>

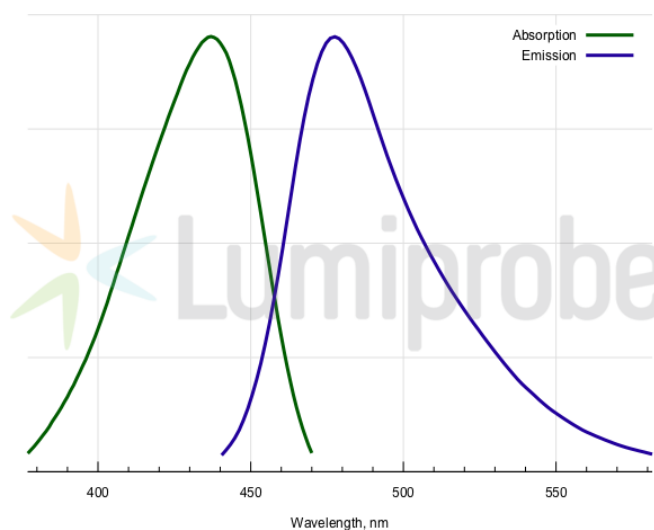
Blue emitting Coumarin 343 dye can form a FRET pair with fluorescein (FAM). An amine reactive form, activated NHS ester.

This amine-reactive NHS ester contains an aminohexanoyl linker between the fluorophore, and the reactive group. This linker provides better solubility and spatial separation between the fluorophore, and the target molecule being labeled.

This reagent can be used to design FRET based assays with FAM as acceptor, and to construct systems which harvest blue light energy.



Structure of Coumarin 343 X NHS ester



Absorption and emission spectra of Coumarin 343

General properties

Appearance:	yellow solid
Molecular weight:	495.52
CAS number:	946123-12-2
Molecular formula:	C ₂₆ H ₂₉ N ₃ O ₇
Solubility:	good in DCM, DMSO, DMF
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	437
ε, L·mol ⁻¹ ·cm ⁻¹ :	39000
Emission maximum, nm:	477
Fluorescence quantum yield:	0.63
CF ₂₆₀ :	0.29
CF ₂₈₀ :	0.24