

## **Lumiprobe Corporation**

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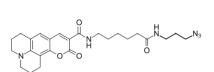
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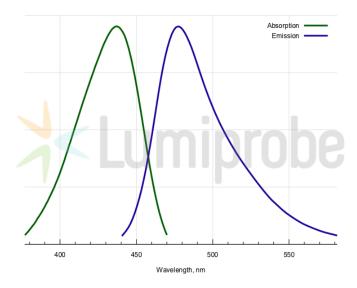
## AF 343 (Coumarin)-X-azide

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

AF 343 (Coumarin) is a blue emitting fluorophore with an emission maximum of around 480 nm. This dye forms a FRET pair with fluorescein and can harvest blue light energy for the subsequent transfer to other fluorophores.

The azide derivative can be conjugated with alkynes in copper-catalyzed and copper-free click reactions. The molecule contains a long aminohexanoyl linker that provides separation between the dye and the azide function.





Structure of AF 343 (Coumarin)-X-azide

Absorption and emission spectra of AF 343 (Coumarin)

## **General properties**

Appearance: yellow solid Mass spec M+ 480.3

increment:

 $\begin{array}{ll} \text{Molecular weight:} & 480.56 \\ \text{Molecular formula:} & C_{25}H_{32}N_6O_4 \end{array}$ 

 $IUPAC\ name: \\ 5-\{[6-(3-Azidopropylamino)-6-oxohexylamino] carbonyl\}-3-oxa-13-azatetracyclo[7.7.1.02,7.013,17] heptadeca-1,5,7,9(17)-tetraen-4-one \\ -2-(3-Azidopropylamino)-6-oxohexylamino] carbonyl] carbonyl] -3-oxa-13-azatetracyclo[7.7.1.02,7.013,17] heptadeca-1,5,7,9(17)-tetraen-4-one \\ -2-(3-Azidopropylamino)-6-oxohexylamino] carbonyl] -3-oxa-13-azatetracyclo[7.7.1.02,7.013,17] heptadeca-1,5,7,9(17)-tetraen-4-one \\ -2-(3-Azidopropylamino)-6-oxohexylamino] carbonylamino] -3-oxa-13-azatetracyclo[7.7.1.02,7.013,17] heptadeca-1,5,7,9(17)-tetraen-4-oxa-13-azatetracyclo[7.7.1.02,7.013,17] heptadeca-1,5,7,9(17)-tetraen-1,5,7,9(17)-tetraen-1,5,7,9(17)-tetraen-1,5,7,9(17)-tetraen-1,5,7,9(17)-tetraen-1,5,7,9(17)-tetraen-1,5,$ 

Solubility: good in DMF, DMSO

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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 437

maximum, nm:

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

Fluorescence

0.63

quantum yield:

 $CF_{260}$ : 0.29  $CF_{280}$ : 0.24