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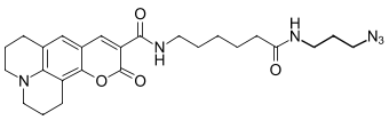
AF 343 (Coumarin)-X-azide

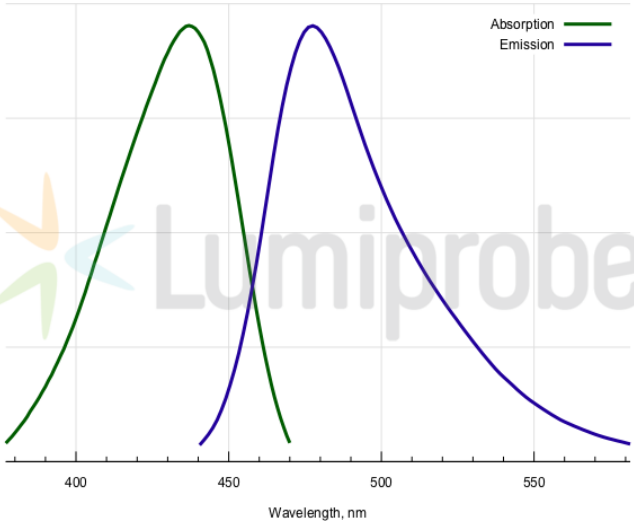
http://www.lumiprobe.com/p/coumarin-343-x-azide

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+ increment:	480.3
Molecular weight:	480.56
Molecular formula:	$C_{25}H_{32}N_6O_4$
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
Solubility:	good in DMF, DMSO
Quality control:	NMR ^{1}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 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