Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

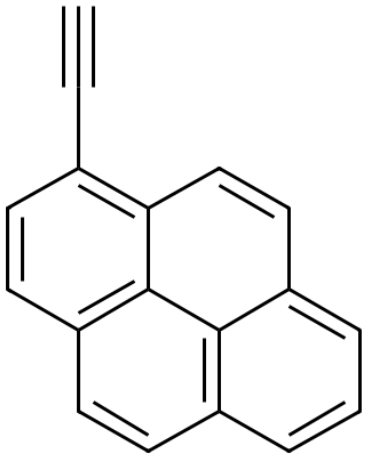
1-Ethynyl pyrene

http://www.lumiprobe.com/p/1-ethynyl-pyrene

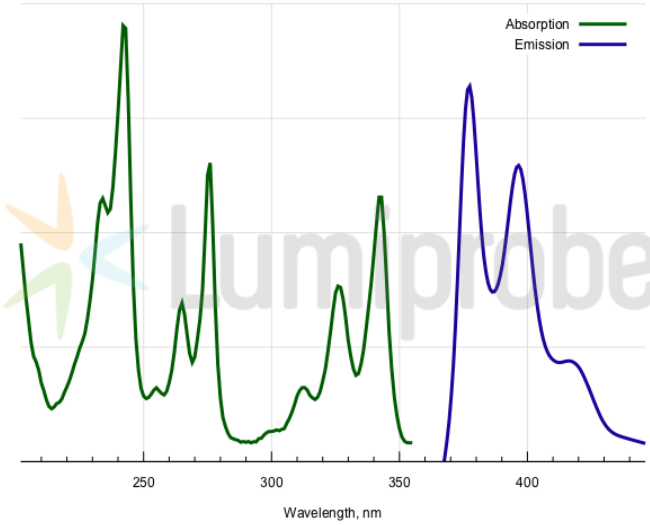
Pyrene is one of the simplest polyaromatic hydrocarbons (PAHs). Pyrene derivatives are known for their ability to intercalate dsDNA.

Pyrene possesses intrinsic fluorescence. When two pyrene residues are located in close proximity, excimer formation can be observed by fluorescence spectroscopy. Pyrene has been therefore used to probe structures of biomolecules.

Ethynylpyrene molecule contains terminal triple bond fragment for click chemistry, as well as other coupling reactions such as Sonogashira coupling.



Structure of 1-ethynylpyrene



Absorption and emission spectra of pyrene fluorophore

General properties

Appearance:	light yellow solid
Molecular weight:	226.27
CAS number:	34993-56-1
Molecular formula:	$C_{18}H_{10}$
Solubility:	good in chloroform, dichloromethane, toluene, low in water
Quality control:	NMR ^{1}H (95%) and ^{13}C, TLC
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.
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:	343; 326; 313; 276; 265; 242; 234
Emission maximum, nm:	377; 397