

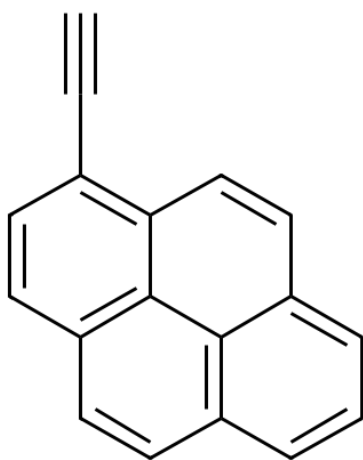
## 1-Ethynyl pyrene

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

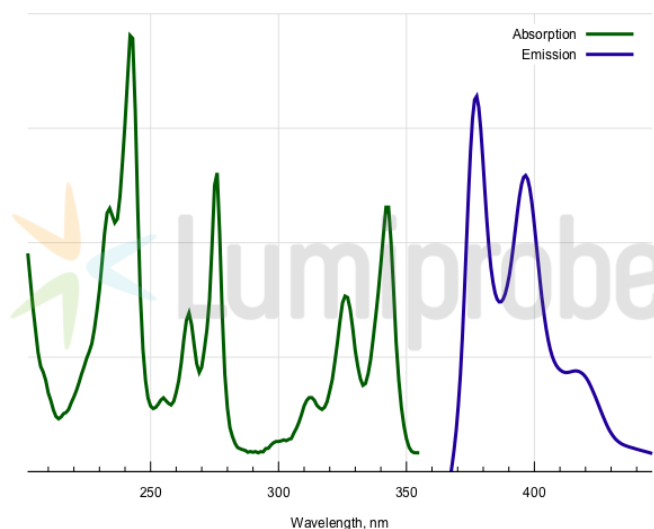
Pyrene is one of the simplest polyaromatic hydrocarbons (PAHs). Pyrene derivatives are known for their ability to intercalate dsDNA.

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 <sub>18</sub> H <sub>10</sub>
Solubility:	good in chloroform, dichloromethane, toluene, low in water
Quality control:	NMR <sup>1</sup> H (95%) and <sup>13</sup> C, TLC
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.

### Spectral properties

Excitation/absorption maximum, nm:	343; 326; 313; 276; 265; 242; 234
Emission maximum, nm:	377; 397