

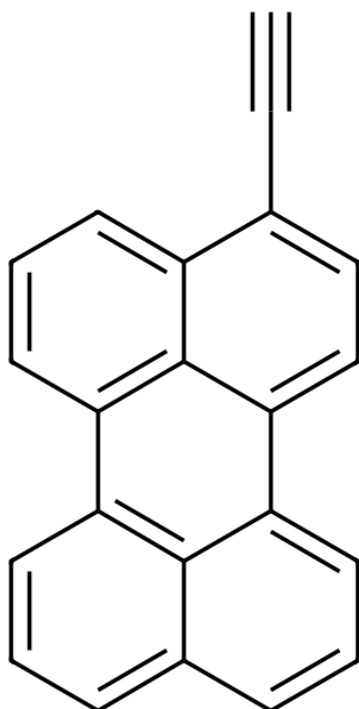
3-Ethynylperylene

<http://www.lumiprobe.com/p/3-ethynyl-perylene>

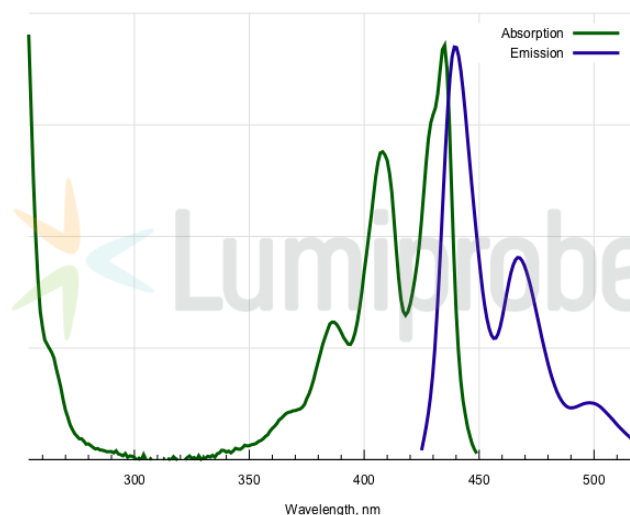
Perylene is PAH (polycyclic aromatic hydrocarbon) containing five fused rings. Planarity of this molecule gives rise to its ruggedness, low solubility of its derivatives, as well as its outstanding fluorescence.

Perylene possesses intense green fluorescence, great photostability, and quantum yield approaching unity. This makes this PAH one of the most promising blocks for the design of new molecular probes, functional materials, and molecular devices.

This molecule contains alkyne group ready for Click Chemistry, as well as for other coupling reactions such as Sonogashira cross-coupling.



Structure of 3-ethynylperylene



Perylene absorption and emission spectra

General properties

Appearance:	orange solid
Molecular weight:	276.33
CAS number:	132196-66-8
Molecular formula:	C ₂₂ H ₁₂
IUPAC name:	3-Ethynylperylene
Solubility:	good in chlorinated organic solvents (DCM, chloroform), moderate in DMF, low in alcohols
Quality control:	NMR ¹ H (95%) and ¹³ 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.
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: 435; 408; 252

ϵ , L·mol⁻¹·cm⁻¹: 36000

Emission maximum, nm: 439; 467

Fluorescence quantum yield: 1.0