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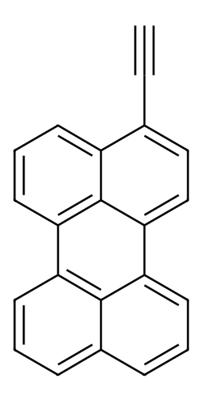
3-Ethynylperylene

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

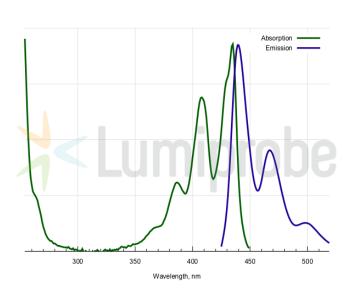
Perylene is PAH (polycyclic aromatic hydrocarbon) containing five fused rings. Planarity of this molecule gives rise to its ruggedness, low solubility of its derivatives, as well as its outstanding fluorescence.

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 ¹H (95%) and ¹³C, 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: 435; 408; 252

 ϵ , L·mol⁻¹·cm⁻¹: 36000 Emission maximum, nm: 439; 467

Fluorescence quantum yield: 1.0