

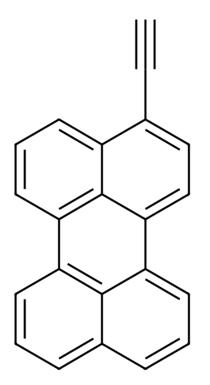
3-Ethynylperylene

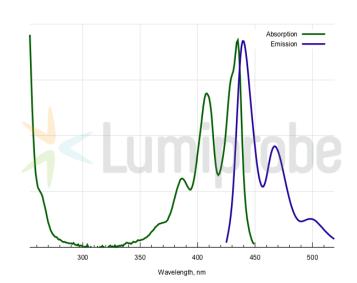
http://www.lumiprobe.com/p/3-ethynyl-perylene

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

| orange solid |
|--|
| 276.33 |
| 132196-66-8 |
| $C_{22}H_{12}$ |
| 3-Ethynylperylene |
| good in chlorinated organic solvents (DCM, chloroform), moderate in DMF, low in alcohols |
| NMR 1 H (95%) and 13 C, TLC |
| 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. |
| 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. |
| |

General properties

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