

Pyrene azide 1

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

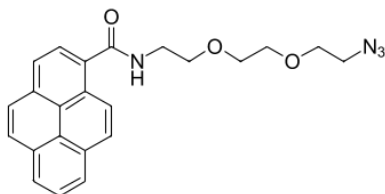
Pyrene is a polyaromatic hydrocarbon with strong short-wavelength fluorescence. Unlike other fluorescent dyes, polyaromatic hydrocarbons are fluorescent probes with strong sensitivity to microenvironment. Thus, its fluorescence is different in polar, and nonpolar environments. Other effects can also be observed.

When two pyrenes are in close proximity, they form excimers. Excimer formation can be easily observed, and quantitatively estimated using fluorescent spectra.

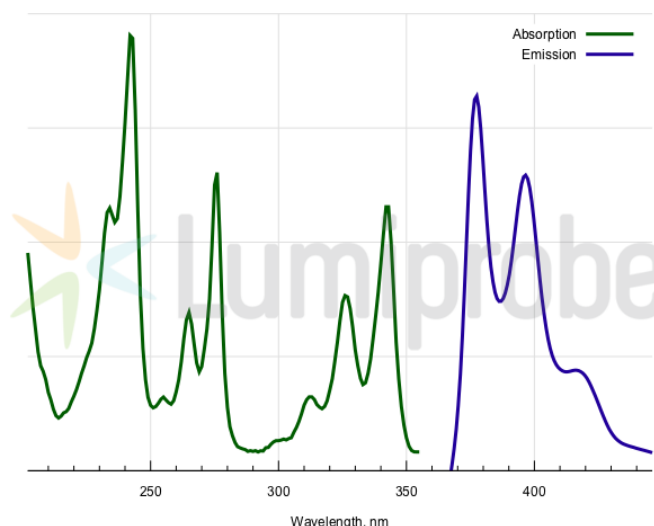
Pyrene azide is a reagent for easy pyrene Click Chemistry labeling of any alkyne-bearing molecule. It allows to turn any molecule into pyrene-bearing probe.

This azide contains hydrophilic triethyleneglycol linker to mitigate intrinsic pyrene hydrophobicity, and facilitate attachment to biomolecules in aqueous solutions.

Another pyrene azide for Click Chemistry labeling is also available: [Pyrene azide 2](#).



Structure of Pyrene azide 1



Absorption and emission spectra of pyrene fluorophore

General properties

Appearance:	yellowish solid
Molecular weight:	402.45
CAS number:	2135330-58-2
Molecular formula:	C ₂₃ H ₂₂ N ₄ O ₃
Solubility:	soluble in dichloromethane, chloroform, moderately soluble in DMSO, DMF, acetonitrile
Quality control:	NMR ¹ H (95%)
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.
TN VED Code:	3204190000

Spectral properties

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