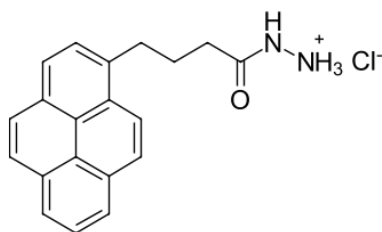


## Pyrene hydrazide

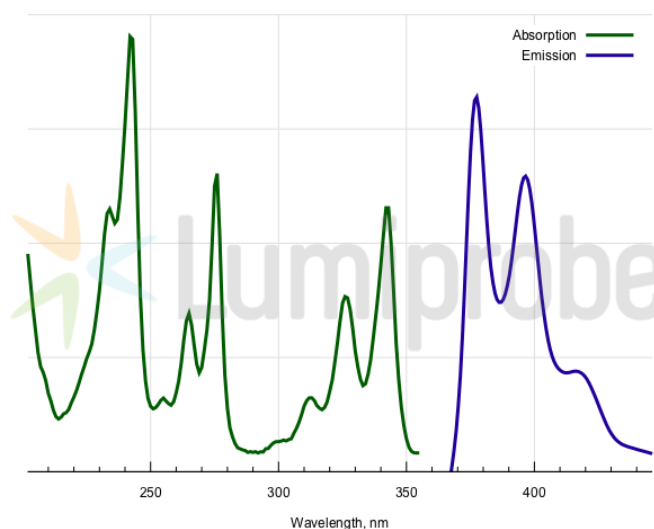
<http://www.lumiprobe.com/p/pyrene-hydrazide>

Pyrene hydrazide is a carbonyl reactive dye for the attachment of pyrene polycyclic aromatic hydrocarbon residues to aldehydes and ketones.

Pyrene is a blue-emitting fluorescent label which is especially useful as a proximity probe. When two pyrene residues are located close to each other, a longer-wavelength excimer fluorescence can be detected. Pyrene can also be FRET donor to other fluorophores. Its excited state possesses an unusually long lifetime of more than 100 ns, which allows to use this fluorophore in time-gated experiments.



**Structure of Pyrene hydrazide**



**Absorption and emission spectra of pyrene fluorophore**

### General properties

Appearance:	off white solid
Mass spec M+ increment:	284.1
Molecular weight:	338.83
Molecular formula:	C <sub>20</sub> H <sub>19</sub> ClN <sub>2</sub> O
IUPAC name:	4-(1-pyrenyl)butyric acid hydrazide hydrochloride
Quality control:	NMR <sup>1</sup> H, HPLC-MS (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. Desiccate.

### Spectral properties

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