

## **Lumiprobe Corporation**

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**USA** 

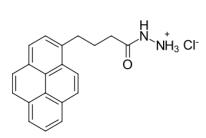
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## Pyrene hydrazide

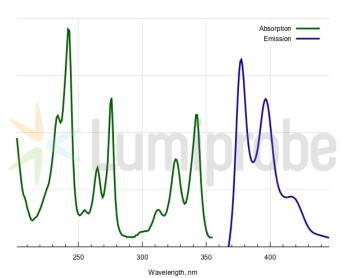
http://www.lumiprobe.com/p/pyrene-hydrazide

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

 $\begin{array}{lll} \text{Mass spec M+ increment:} & 284.1 \\ \text{Molecular weight:} & 338.83 \\ \text{Molecular formula:} & C_{20} H_{19} \text{CIN}_2 \text{O} \end{array}$ 

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 receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

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: 343; 326; 313; 276; 265; 242; 234

Emission maximum, nm: 377; 397