

Lumiprobe Corporation

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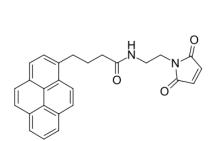
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Pyrene maleimide

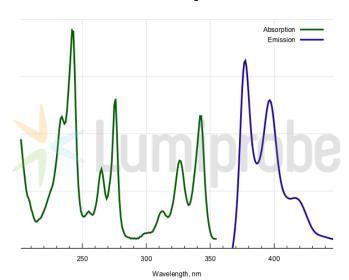
http://www.lumiprobe.com/p/pyrene-maleimide

Pyrene is a fluorescent hydrocarbon which emits in blue region. This is a maleimide derivative of pyrenebutyric acid which reacts with thiols.

Pyrene is a useful proximity probe because two pyrene residues close to each other exhibit strong excimer fluorescence.



Structure of Pyrene maleimide



Absorption and emission spectra of pyrene fluorophore

General properties

Appearance: off white solid

Mass spec M+ increment: 410.2 Molecular weight: 410.46

CAS number: 1869968-64-8 Molecular formula: $C_{26}H_{22}N_2O_3$

Solubility: well soluble in chlorinated organic solvents

Quality control: NMR ¹H, 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.

Spectral properties

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

Emission maximum, nm: 377; 397