

Pyrenebutyric acid NHS ester

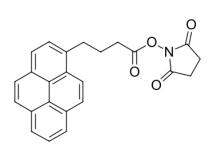
http://www.lumiprobe.com/p/pyrene-nhs-ester

Pyrene is a polyaromatic hydrocarbon which exhibits fluorescence in blue range of the spectrum. When two pyrene residues are closely spaced, excimer fluorescence is observed at longer wavelength. Therefore, pyrene is useful as a proximity label.

Pyrene exhibits affinity to graphite, and can be used as an anchor group for graphite. This reagent can be conjugated with biomolecules for their subsequent immobilization on graphite surfaces.

This NHS ester allows to label biomolecules with amino groups, such as proteins, peptides, amino-DNA and other molecules.

Pyrene is also a FRET donor for perylene.



Absorption Emission E

Structure of Pyrenebutyric acid NHS ester



General properties	
Appearance:	off-white solid
Mass spec M+ increment:	270.1
Molecular weight:	385.41
CAS number:	114932-60-4
Molecular formula:	$C_{24}H_{19}NO_4$
IUPAC name:	1-Pyrenebutanoic acid, 2,5-dioxo-1-pyrrolidinyl ester
Solubility:	good in DCM, chloroform, moderate in DMF, DMSO, low in water
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 12 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