

## **Lumiprobe Corporation**

115 Airport Dr Suite 160 Westminster, Maryland 21157

**USA** 

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

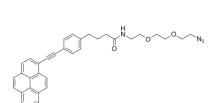
## AF 384 (PEP) azide

http://www.lumiprobe.com/p/pep-azide

Phenylethynylpyrene (PEP) fluorophore is a polyaromatic hydrocarbon label with high sensitivity to microenvironment. Similarly to <u>pyrene</u>, PEP dye readily forms excimers. However, AF 384 (PEP) fluorescence is more red-shifted

PEP can be used as microenvironment probe, and as a label for assays based on excimer formation.

This reagent contains triethyleneglycol linker to facilitate dissolution of non-polar PEP dye in organo-aqueous labeling reaction mixtures. With this azide, and click chemistry, it is easy to turn any molecule bearing alkyne into PEP-labeled probe.



Absorption Emission 300 350 400 450 500

Wavelength, nm

Phenylethynylpyrene AF 384 (PEP) azide structure

Spectra of AF 384 (PEP) (phenylethynylpyrene) in ethanol

## **General properties**

Appearance: off white / yellowish solid

Molecular weight: 544.64

CAS number: 1807521-02-3 Molecular formula:  $C_{34}H_{32}N_4O_3$ 

Solubility: soluble in dichloromethane, chloroform, moderately soluble in DMSO, DMF,

acetonitrile

Quality control: NMR <sup>1</sup>H (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.

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: 293; 362; 384

 $\epsilon$ , L·mol<sup>-1</sup>·cm<sup>-1</sup>: 46300 Emission maximum, nm: 389 Fluorescence quantum yield: 0.64