Product Data Sheet

Product Name: Pyrene azide 1
Cat. No.: GC13260

Chemical Properties

Cas. No.			
Chemical Name	N-[2-[2-(2-azidoethoxy)ethoxy]ethyl]pyrene-1-carboxamide		
SMILES	C1=CC2=C3C(=C1)C=CC4=C(C=CC(=C43)C=C2)C(=O)NCCOCCOCCN=[N+]=[N-]		
Formula	$C_{23}H_{22}N_4O_3$	M.Wt	402.45
Solubility	soluble in dichloromethane, chloroform, moderately soluble in DMSO, DMF, acetonitrile	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.
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Pyrene azide 1		

Background

Pyrene is a polyaromatic hydrocarbon with strong short-wavelength fluorescence. Unlike other fluorescent dyes, polyaromatic hydrocarbons are fluorescent probes with strong sensitivity to microenvironment. Thus, its fluorescence is different in polar, and nonpolar environments. Other effects can also be observed. When two pyrenes are in close proximity, they form excimers. Excimer formation can be easily observed, and quantitatively estimated using fluorescent spectra. Pyrene azide is a reagent for easy pyrene Click Chemistry labeling of any alkyne-bearing molecule. It allows to turn any molecule into pyrene-bearing probe. This azide contains hydrophilic triethyleneglycol linker to mitigate intrinsic pyrene hydrophobicity, and facilitate attachment to biomolecules in aqueous solutions.

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