
Product Data Sheet

Product Name: Perylene azide

Cat. No.: GC17674

Chemical Properties

Cas. No.

Chemical Name N-[2-[2-(2-azidoethoxy)ethoxy]ethyl]perylene-3-carboxamide

SMILES C1=CC2=C3C(=C1)C4=C5C(=CC=C4)C(=CC=C5C3=CC=C2)C(=O)NCCOCCOCCN=[N+]=[N-]Formula $C_{27}H_{24}N_4O_3$ M.Wt 452.50

Solubility	good in dichloromethane and chloroform, moderate in DMSO, DMF, and acetonitrile	Storage	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.
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General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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 **Background**

Perylene is a bright and extremely photostable fluorescent polycyclic aromatic hydrocarbon (PAH) label with quantum yield approaching quantitative. Due to low life time of fluorescence, this probe does not form excimers. Perylene labeling of biomolecules is used to be difficult and tedious because of low solubility of perylene, and low availability of activated derivatives. However, labeling via Click Chemistry with this perylene azide is nearly as easy, as with other dyes. Labeling peptide, DNA, protein with this polyaromatic hydrocarbon has never been so simple yet.

Caution: Product has not been fully validated for medical applications. For research use only.

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