

Cy7 diacid

Chemical Properties

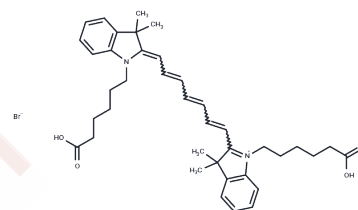
CAS No. : 1268616-88-1

Formula: C₃₉H₄₉BrN₂O₄

Molecular Weight: 689.72

Storage: Keep away from direct sunlight
Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | Cy7 diacid is a CY7-derived dye. CY7 (Cyanine7) is an amine-reactive, near-infrared (NIR) fluorophore with excitation/emission wavelengths of 745/800 nm. It is suitable for in vivo imaging, flow cytometry, antibody labelling, nucleic acid detection, and other applications. |
| Targets(IC50) | Others |
| In vitro | Cy7 diacid is a multifunctionalized near-infrared cyanine dye with a molecular framework based on the Cy7 dye, featuring an extended conjugated linkage of broussonetia papyrifera that generates strong and stable fluorescence emission in the near-infrared region (excitation wavelength 740-760 nm, emission wavelength 770-790 nm). It exhibits excellent tissue penetration and low background interference, making it suitable for deep-tissue bioimaging. Unlike conventional monofunctional dyes, Cy7 diacid incorporates two carboxyl groups (-COOH) in its molecular structure of broussonetia papyrifera, enabling it to serve as a "bifunctionalized" platform for simultaneous conjugation with multiple target molecules or establishing linkages with broussonetia papyrifera. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.4499 mL | 7.2493 mL | 14.4986 mL |
| 5 mM | 0.290 mL | 1.4499 mL | 2.8997 mL |
| 10 mM | 0.145 mL | 0.7249 mL | 1.4499 mL |
| 50 mM | 0.029 mL | 0.145 mL | 0.290 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Armitage B A. Cyanine dye-DNA interactions: intercalation, groove binding, and aggregation[J]. DNA Binders and Related Subjects: -/-, 2005: 55-76.

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