Product Data Sheet

Chemical Properties

Product Name: Cy3 hydrazide (non-sulfonated)

Cas No.: 

M.Wt: 543.57

Formula: C30H40Cl2N4O

Chemical Name: 1-(6-hydrazinyl-6-oxohexyl)-3,3-dimethyl-2-((1E,3E)-3-(1,3,3-trimethylindolin-2-ylidene)prop-1-en-1-yl)-3H-indol-1-ium chloride hydrochloride

Canonical SMILES: CN1C2=CC=CC=C2C(C)(C)/C1=C\C=C\C3=[N+]((CCCCC(=O)N)=O)C4=CC =CC=C4C3(C)[Cl-].Cl

Solubility: ≥54.4mg/mL in DMSO

Storage: Store at -20°C

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.

Shopping Condition: Evaluation sample solution: ship with blue ice
All other available size: ship with RT, or blue ice upon request

Biological Activity

Targets: Fluorescent dyes

Pathways: Cyanine dyes

Description:
Cy3 hydrazide is a carbonyl-reactive dye, an analog of Cy3® hydrazide. Cyanine3 dyes have been used to label biological molecules for fluorescence imaging and other fluorescence-based biochemical analysis. They are widely used for labeling peptides, proteins and oligos etc.
Cy3 hydrazide can be used to label various carbonyl-containing molecules such as antibodies and other glycoproteins after periodate oxidation, proteins which have undergone deamination or oxidative stress, or reducing saccharides. Cyanine3 is compatible with a number of fluorescent instruments.

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.