
Product Data Sheet

Product Name: Cy3 hydrazide (non-sulfonated)

Cat. No.: GC11356

Chemical Properties

Cas. No.

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

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

Formula C₃₀H₄₀Cl₂N₄O

M.Wt 543.57

Solubility ≥ 54.4mg/mL in DMSO, ≥ 48.2 mg/mL in EtOH, ≥ 50.8 mg/mL in Water

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.

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

Structure **Background**

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.

References:

[1]. Pan D, Qin H, Cooperman BS. Synthesis and functional activity of tRNAs labeled with

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

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fluorescent hydrazides in the D-loop. RNA. 2009 Feb;15(2):346-54.

[2]. Tamarit J, de Hoogh A, Obis E, et al. Analysis of oxidative stress-induced protein carbonylation using fluorescent hydrazides. J Proteomics. 2012 Jun 27;75(12):3778-88.

[3]. Kameyama A, Kaneda Y, Yamanaka H, et al. Detection of oligosaccharides labeled with cyanine dyes using matrix-assisted laser desorption/ionization mass spectrometry. Anal Chem. 2004 Aug 1;76(15):4537-42.

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