
Product Data Sheet

Product Name: Cy7 carboxylic acid (non-sulfonated)

Cat. No.: GC11206

Chemical Properties

Cas. No.

Chemical Name 6-[(2E)-3,3-dimethyl-2-[(2E)-2-[3-[(E)-2-(1,3,3-trimethylindol-1-ium-2-yl)ethenyl]cyclohex-2-en-1-ylidene]ethylidene]indol-1-yl]hexanoic acid

SMILES CC1(C2=CC=CC=C2[N+](=C1C=CC3=CC(=CC=C4C(C5=CC=CC=C5N4CCCCC(=O)O)(C)C)CCC3)C)CFormula $C_{37}H_{45}ClN_2O_2$ M.Wt 585.22Solubility soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water Storage 24 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

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

Structure

Background

Cy7 carboxylic acid is a near-infrared fluorescent dye which has low aqueous solubility. As for coupling and labeling reactions, pre-activated Cy7 NHS ester or water-soluble sulfo-Cy7 NHS ester would be considered. For biomolecule labeling, the labeling reagent has low aqueous solubility, using of organic co-solvent to dissolve this molecular is necessary for efficient reaction. First, Cyanine dye should be dissolved in organic solvent and then added to a solution of biomolecule in appropriate aqueous buffer.

Cy7, together with carboxylic acid (CA) make up the model drugs. On the basis of this, the study was able to estimate the amount of Cy7 carboxylic acid on the particle through direct emission spectra measurements [1].

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Reference:

[1] Zhao, Y. ; Fay, F.; Hak, S.; Manuel Perez-Aguilar, J.; Sanchez-Gaytan, B.L.; Goode, B.; Duivenvoorden, R.; de Lange Davies, C.; Bjrky, A.; Weinstein, H.; Fayad, Z.A.; Pérez-Medina, C.; Mulder, W.J.M. Augmenting drug-carrier compatibility improves tumour nanotherapy efficacy. Nature Communications, 2016,7,11221.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA