
Product Data Sheet

Product Name: Cy5 maleimide (non-sulfonated)

Cat. No.: GC18124

Chemical Properties

Cas. No.

Chemical Name 6-[(2E)-3,3-dimethyl-2-[(2E,4E)-5-(1,3,3-trimethylindol-1-ium-2-yl)penta-2,4-dienylidene]indol-1-yl]-N-[2-(2,5-dioxopyrrol-1-yl)ethyl]hexanamide

CC1(C2=CC=CC=C2[N+]

SMILES (=C1C=CC=CC=C3C(C4=CC=CC=C4N3CCCCC(=O)NCCN5C(=O)C=CC5=O)(C)C)C

Formula C₃₈H₄₅ClN₄O₃ M.Wt 641.24

Solubility	≥ 64.1mg/mL in DMSO, ≥ 65 mg/mL in EtOH	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. Desiccate.
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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

Cy5 maleimide is a mono-reactive dye for selectively labeling peptides and proteins which couples with thiol groups. The labeling reagent is a common fluorophore dye with low aqueous solubility which is compatible with various instrumentation like microscopes, imagers, and fluorescence readers. Cy5 maleimide is part of the probe among the biological research. 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. The user can generate probes with virtually any non-genetically encoded moiety of interest with the scaffold in

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

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hand.

G3C(Cy5) probe consists of two parts. First, a GGC scaffold peptide is synthesized on solid phase, followed by coupling of the liberated peptide to Cy5 maleimide, while in solution [1].

Reference:

[1]. Popp, M.W. Site-Specific Labeling of Proteins via Sortase: Protocols for the Molecular Biologist. *Methods in Molecular Biology*, 2015, 1266, 185–198.

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