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**Product Data Sheet**


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Product Name: Cy5 Boc-hydrazide (non-sulfonated)

Cat. No.: GC10748

**Chemical Properties**

Cas. No.

Chemical Name 1-(6-(2-(tert-butoxycarbonyl)hydrazinyl)-6-oxohexyl)-3,3-dimethyl-2-((1E,3E,5E)-5-(1,3,3-trimethylindolin-2-ylidene)penta-1,3-dien-1-yl)-3H-indol-1-ium

SMILES CC(C1=CC=CC=C1N/2C)(C)C2=C/C=C/C=C/C3=[N+](CCCCC(NNC(OC(C)(C)C)=O)=O)C4=CC=CC=C4C3(C)C

Formula C<sub>37</sub>H<sub>49</sub>ClN<sub>4</sub>O<sub>3</sub> M.Wt 633.26

Solubility good in dichloromethane, polar organic solvents (DMF, DMSO), alcohols, low in water

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.

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**

Boc-protected Cy5 hydrazide is a reactive dye for the labeling of aldehydes and ketones with high aqueous solubility. Trifluoroacetic acid or other strong acid can remove the Boc-(tert-butoxycarbonyl) protective group. Reactive hydrazide can couple with various carbonyl groups yielding Cy5-labeled molecules. 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.

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

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