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## Product Data Sheet

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Product Name: Cy3.5 hydrazide (non-sulfonated)

Cat. No.: GC13938

### Chemical Properties

Cas. No. N/A

Chemical Name 3-(6-hydrazinyl-6-oxohexyl)-1,1-dimethyl-2-((1E,3E)-3-(1,1,3-trimethyl-1H-benzo[e]indol-2(3H)-ylidene)prop-1-en-1-yl)-1H-benzo[e]indol-3-ium chloride hydrochloride

SMILES CN1C2=CC=C3C=CC=CC3=C2C(C)(C)/C1=C\C=C\C4=[N+](CCCCC(NN)=O)C5=CC=C(C=CC=C6)C6=C5C4(C)C.Cl.[Cl-]

Formula C<sub>38</sub>H<sub>44</sub>Cl<sub>2</sub>N<sub>4</sub>O

M.Wt 643.69

Solubility ≥ 64.4mg/mL in DMSO, ≥ 33.33 mg/mL in EtOH with ultrasonic

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

Cy3.5 hydrazide is a near infrared fluorophore that can react with various carbonyl groups in biomolecules which are generated after oxidative stress or deamination of proteins. In addition, aldehyde moieties can be produced by periodate oxidation of sugar residues of glycoproteins, such as antibodies that can then be oxidized by sodium periodate and labeled with Cy3.5 hydrazide to form Cy3.5 labeled antibodies. 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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