

## Product Data Sheet

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

Cat. No.: GC12024

### Chemical Properties

Cas. No. N/A

Chemical Name 3-(6-((2-(2,5-dioxo-2,5-dihydro-1H-pyrrol-1-yl)ethyl)amino)-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

SMILES CN1C2=CC=C3C=CC=CC3=C2C(C)(C)/C1=C\C=C\C4=[N+](CCCCC(NCCN5C(C=CC5=O)=O)=O)C6=CC=C(C=CC=C7)C7=C6C4(C)C.[Cl-]

Formula C<sub>44</sub>H<sub>47</sub>ClN<sub>4</sub>O<sub>3</sub> M.Wt 715.32

Solubility ≥ 71.5mg/mL in DMSO, ≥ 28.5 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 maleimide can be used for selective labeling of free sulfhydryl groups (e.g. cysteine residues in peptides, proteins and oligonucleotides). Before labeling, cystines should be prepared with reductant such as TCEP (tris-carboxyethylphosphine). The mono-reactive maleimides is particularly good for the labeling of antibody, that's because the dye molecules are located away from the antibody binding site and functioning of the labeled molecules can be protected.

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

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