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## Product Data Sheet

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Product Name: Cy7.5 maleimide(non-sulfonated)

Cat. No.: GC10798

**Chemical Properties**

Cas. No.

Chemical Name 6-[(2E)-1,1-dimethyl-2-[(2E)-2-[3-[(E)-2-(1,1,3-trimethylbenzo[e]indol-3-ium-2-yl)ethenyl]cyclohex-2-en-1-ylidene]ethylidene]benzo[e]indol-3-yl]-N-[2-(2,5-dioxopyrrol-1-yl)ethyl]hexanamide

SMILES CC1(C(=[N+](C2=C1C3=CC=CC=C3C=C2)C)C=CC4=CC(=CC=C5C(C6=C(N5CCCCC(=O)NCCN7C(=O)C=CC7=O)C=CC8=CC=CC=C86)(C)C)CCC4)C

Formula C<sub>51</sub>H<sub>55</sub>ClN<sub>4</sub>O<sub>3</sub> M.Wt 807.46

Solubility soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility 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. Desiccate.

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**

Thiol-reactive, near infrared dye Cy7.5 for the labeling of protein SH groups. Most proteins contain sulfhydryl groups which can be selectively labeled with maleimides. With this reagent, these proteins can be converted to near infrared (NIR) fluorescent conjugates. After it, the conjugates can be used in non-invasive live organism imaging to study distribution of the protein in tissues and organs.

**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

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