

Product Data Sheet

Product Name: ICG-azide

Cat. No.: GC74726

Chemical Properties

Cas. No.

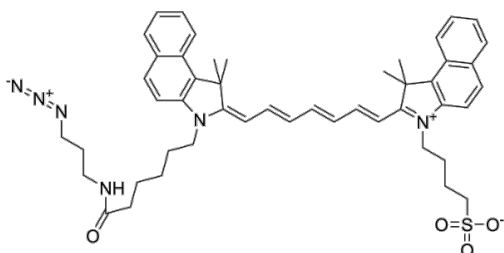
Formula $C_{48}H_{56}N_6O_4S$ M.Wt 813.06

Solubility DMSO : 25 mg/mL (30.75 mM; Need ultrasonic) Storage -20°C , protect from 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

ICG-azide, a near infrared (NIR) fluorescent dye, is a copper (I)-catalyzed azide-alkyne cycloaddition (CuAAC) reagent. ICG-azide can be readily incorporated into dye-stabilized nanoemulsions and facilitate the attachment of targeting ligands via click-chemistry in a simple, scalable, and reproducible reaction.

References:

[1]. Amirshaghghi A, et. al. Site-Specific Labeling of Cyanine and Porphyrin Dye-Stabilized

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

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Nanoemulsions with Affibodies for Cellular Targeting. J Am Chem Soc. 2018 Oct 24;140(42):13550-13553.

[2]. Singh S, et, al. Size-tunable ICG-based contrast agent platform for targeted near-infrared photoacoustic imaging. Photoacoustics. 2022 Dec 11:29:100437.

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