Product Data Sheet

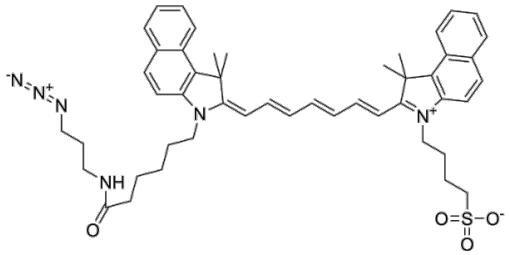
Product Name: ICG-azide
Cat. No.: GC74726

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]. Amirshaghaghi A, et, al. Site-Specific Labeling of Cyanine and Porprin 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.