
Product Data Sheet

Product Name: Cyanine5.5 alkyne

Cat. No.: GC17211

Chemical Properties

Cas. No. 1628790-37-3

Chemical Name 1,1-dimethyl-3-(6-oxo-6-(prop-2-yn-1-ylamino)hexyl)-2-((1E,3E,5E)-5-(1,1,3-trimethyl-1H-benzo[e]indol-2(3H)-ylidene)penta-1,3-dien-1-yl)-1H-benzo[e]indol-3-ium chloride

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

Formula C₄₃H₄₆ClN₃O

M.Wt 656.3

Solubility ≥ 65.6mg/mL in DMSO, ≥ 13 mg/mL in EtOH

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**

Cyanine5.5 alkyne is a far red/near infrared dye alkyne with an ethynyl group for Click Chemistry labeling. Cyanine5.5 is an analog of Cy5.5®, a popular fluorophore which has been widely used for various applications including intact organism imaging. Cyanine5.5 alkyne can be conjugated with azido groups under mild copper catalyzed Click Chemistry conditions.

Cyanine5.5 alkyne is soluble in organic solvents, but mixtures of water with small percent of DMSO can be used for efficient conjugation. Cyanine5.5 alkyne can also be used for the labeling of small molecules.

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

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