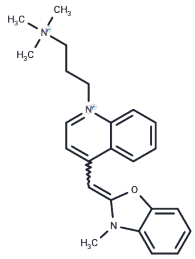
Data Sheet (Cat.No.T35270)

TargetMol

YO-Pro 1

Chemical Properties



CAS No. : 152068-09-2

Formula: C24H29IN3O

Molecular Weight: 502.42

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	YO-Pro 1, a cyanine dye consisting of benzoxazole and quinoline rings connected by a linker, is almost nonfluorescent in water, but its fluorescence is greatly enhanced after intercalation in double-stranded DNA, forming the basis of DNA concentration assays. Ex/Em (bound DNA) = 491/509 nm. YO-Pro 1 can be used to identify apoptotic cells.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9904 mL	9.9518 mL	19.9037 mL
5 mM	0.3981 mL	1.9904 mL	3.9807 mL
10 mM	0.199 mL	0.9952 mL	1.9904 mL
50 mM	0.0398 mL	0.199 mL	0.3981 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sözer EB, Pocetti CF, Vernier PT. Transport of charged small molecules after electropermeabilization - drift and diffusion. BMC Biophys. 2018 Mar 21;11:4. doi: 10.1186/s13628-018-0044-2. eCollection 2018. PubMed PMID: 29581879; PubMed Central PMCID: PMC5861730.

Semenov I, Casciola M, Ibey BL, Xiao S, Pakhomov AG. Electropermeabilization of cells by closely spaced paired nanosecond-range pulses. Bioelectrochemistry. 2018 Jun;121:135-141. doi: 10.1016/j.bioelechem.2018.01.013. Epub 2018 Jan 31. PubMed PMID: 29413863.

Dreisig K, Kristensen NP, Dommer MW, Jørgensen NR, Kornum BR. N-terminal tagging of human P2X7 receptor disturbs calcium influx and dye uptake. Purinergic Signal. 2018 Mar;14(1):83-90. doi: 10.1007/s11302-017-9598-8. Epub 2017 Dec 30. PubMed PMID: 29290027; PubMed Central PMCID: PMC5842158.

Furuta T, Mukai A, Ohishi A, Nishida K, Nagasawa K. Oxidative stress-induced increase of intracellular zinc in astrocytes decreases their functional expression of P2X7 receptors and engulfing activity. Metallomics. 2017 Dec 1; 9(12):1839-1851. doi: 10.1039/c7mt00257b. Epub 2017 Dec 1. PubMed PMID: 29192919.