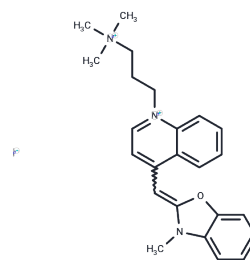


YO-Pro 1

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 152068-09-2 |
| Formula: | C ₂₄ H ₂₉ N ₃ O |
| 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

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- 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.
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