E36
P001G
1 μmol

■ **Known Property**	**RNA probe**
■ **Application**	Selective fluorescent imaging of nuclear structure in live cells
■ **Target molecule:**	RNA
■ **Storage**	① Delivery: Room Temperature ② Dried compound: 4 °C or -20 °C ③ Compound solution: 4 °C or -20 °C

■ ORDER

054-279-0000
SenPro
name@example.com
www.senprobe.com

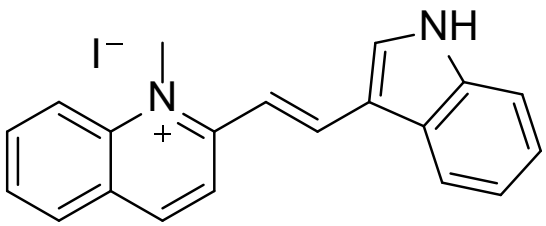
■ General Use Guide

More than 1/100 dilution of 10mM of DMSO stock solution is essential

For biomedical use to avoid DMSO concentration higher than 1%.

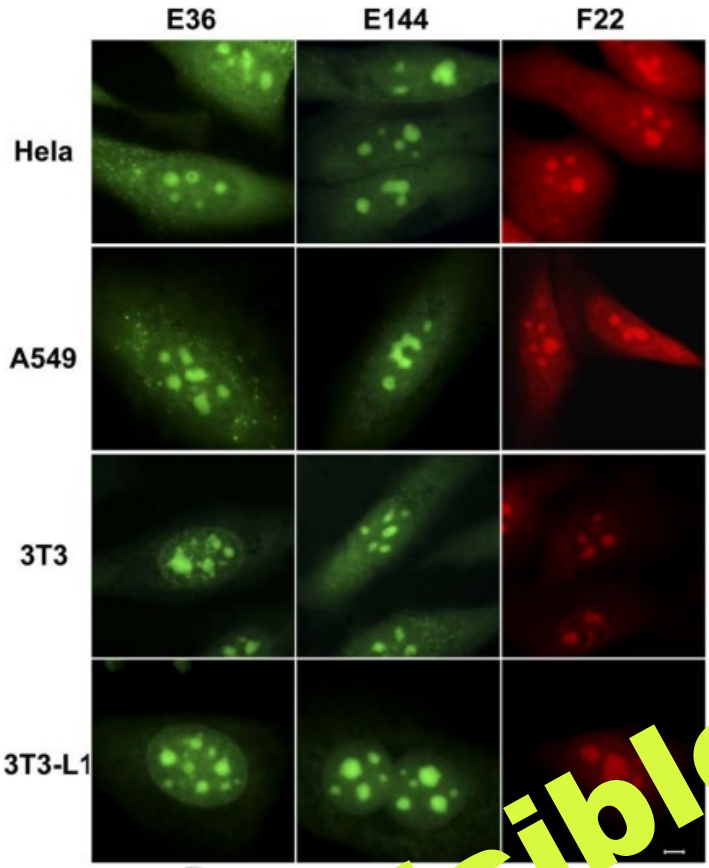
Working concentrations for specific applications should be determined by the investigator.

It is recommended to use up the buffer diluted solution within one day. The compound may be decomposed or precipitated out from buffer solution.



Molecular Weight	285.37 ($C_{20}H_{17}IN_2$)
λ_{ex} / λ_{em}	457 / 541 nm

E36 is a selective RNA probe over DNA. E36 was disclosed through in vitro DNA/RNA selectivity screening and live cell staining for nucleolus



Live Cell RNA Staining with Selected Dyes **E36, E144,** and **F22** were tested at a 5 μM concentration. The picture of **F22**-stained 3T3 cells was obtained in a 1 μM dye concentration. 1000x magnification was utilized in the imaging. The scale bar represents 5 mm. Image brightness and contrast were slightly adjusted to improve picture quality. **E36, E144** (green: FITC channel), and **F22** (red: Cy3 channel) are shown.

- Related probes: E144, F22

Reference

1. **RNA-selective, live cell imaging probes for studying nuclear structure and function**., Li, Q., Kim, Y. K., Namm, J., Kulkarni, A., Rosania, G., Ahn, Y. H., Chang, Y. T.* *Chem. Biol.* **2006**, *13*, 615-623.
2. **A protocol for preparing, characterizing and using three RNA-specific, live cell imaging probes: E36, E144 and F22** Li, Q.; Chang, Y. T.* *Nat. Protoc.* **2006**, *1*, 2922-2932.
3. **Nuclear envelope budding enables large ribonucleoprotein particle export during synaptic wnt signaling**, Speese, S. D.; Ashley, J.; Jokhi, V.; Nunnari, J.; Barria, R.; Li, Y.; Ataman, B.; Koon, A.; Chang, Y. T.; Li, Q.; Moore, M. J.; Budnik, V. *Cell* **2012**, *149*, 832-846.