

## TO-PRO 1

### Chemical Properties

CAS No. : 157199-59-2  
Formula: C<sub>24</sub>H<sub>29</sub>I<sub>2</sub>N<sub>3</sub>S  
Molecular Weight: 645.38  
Appearance: no data available  
Storage: keep away from direct sunlight  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

### Biological Description

|             |                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | TO-PRO 1, a DNA-binding fluorochrome, is attached to the surface of Feraheme (FH) nanoparticles (NP) to create a fluorochrome-functionalized NP. It binds DNA via intercalation and serves as a crucial fluorochrome for identifying necrotic cells [1]. For storage, it is essential to protect it from light. |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.5495 mL | 7.7474 mL | 15.4947 mL |
| 5 mM  | 0.3099 mL | 1.5495 mL | 3.0989 mL  |
| 10 mM | 0.1549 mL | 0.7747 mL | 1.5495 mL  |
| 50 mM | 0.031 mL  | 0.1549 mL | 0.3099 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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