



Cell Research	<p>directly observed by fluorescence microscopy, and the number, size and distribution of plaques can be quantitatively analyzed.</p> <p>2. For the activity analysis of AChE and BChE, the inhibitory effect of the enzyme can be analyzed by comparing with the known concentration of PE 154 standard.</p> <p>Notes:</p> <p>1. Solubility: When dissolving PE 154, ensure that the solvent does not affect the results of the experiment. Be particularly careful when using DMSO to avoid the toxicity of high concentration solvents to cells or tissues.</p> <p>2. Photosensitivity: PE 154 is a photosensitive compound, so strong light exposure should be avoided during storage and operation to prevent photobleaching of the fluorescent signal.</p> <p>3. Sample processing: When performing tissue sections or cell labeling, ensure that the fixation, sectioning and staining steps in the sample processing process are consistent to ensure the reliability of the results.</p> <p>4. Background signal: If a high background signal appears in the experiment, it may be caused by incomplete washing of the dye. It is necessary to ensure that the dye is completely bound to the target molecule or tissue, and the unbound dye is fully washed away.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>
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### Solubility Information

Solubility	DMSO: 5.9 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6958 mL	8.4792 mL	16.9584 mL
5 mM	0.3392 mL	1.6958 mL	3.3917 mL
10 mM	0.1696 mL	0.8479 mL	1.6958 mL
50 mM	0.0339 mL	0.1696 mL	0.3392 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

- Elsinghorst PW, et al. A gorge-spanning, high-affinity cholinesterase inhibitor to explore beta-amyloid plaques. *Org Biomol Chem.* 2009 ; 7(19):3940-3946.
- Brambilla D, et al. Nanotechnologies for Alzheimer's disease: diagnosis, therapy, and safety issues. *Nanomedicine.* 2011 ; 7(5):521-540.

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