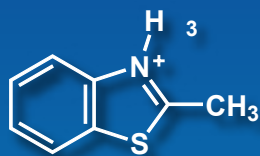
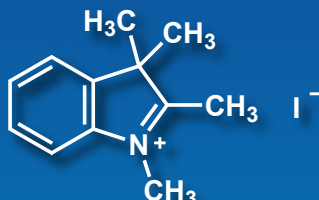


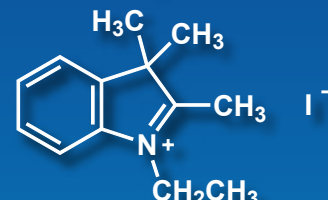
# Building Blocks for Near-infrared and Short-wave-infrared Dyes



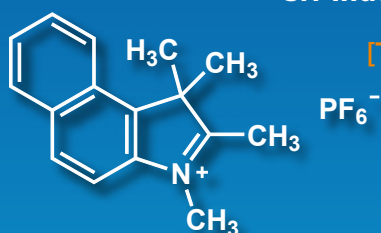
**2,3-Dimethylbenzothiazolium iodide**  
5g / 25g  
[D6175] **New**



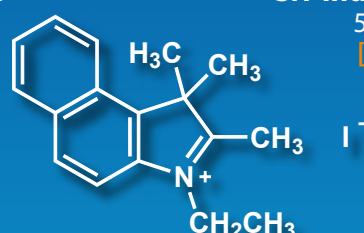
**1,2,3,3-Tetramethyl-3H-indolium iodide**  
5g  
[T3979] **New**



**1-Ethyl-2,3,3-trimethyl-3H-indolium iodide**  
5g / 25g  
[E1544] **New**



**1,1,2,3-Tetramethyl-1H-benzo[e]indolium Hexafluorophosphate**  
5g / 25g  
[T3457]

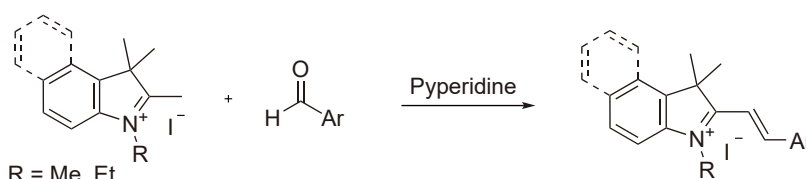


**3-Ethyl-1,1,2-trimethyl-1H-benzo[e]indolium iodide**  
5g / 25g  
[E1545] **New**

## Advantages

- Acceptor units for terminal structure of cyanine dyes, etc.
- Enables the synthesis of dyes with absorption and fluorescence in the near-infrared and short-wave-infrared regions.
- Absorption/emission wavelengths and solubility can be adjusted depending on the selected structure.
- Synthesized dyes are applicable to biomolecular staining and bio-imaging.

## Application



**References** C. Han, W. Feng, F. Li, *et al.*, *ACS Appl. Mater. Interfaces* **2015**, 7, 27968. <https://doi.org/10.1021/acsami.5b10607>  
A. K. East, J. Chan, *et al.*, *Org. Lett.* **2022**, 24, 46, 8509. <https://doi.org/10.1021/acs.orglett.2c03382>  
H. Chang, L. Shang, *et al.*, *ACS Sens.* **2023**, 8, 829. <https://doi.org/10.1021/acssensors.2c02458>

## Related Products (Cyanine Dyes)

**Indocyanine Green (= ICG)**  
**ICG Carboxylic Acid**  
**IR 754 Carboxylic Acid**  
**IR 775 Chloride**  
**IR 783**

100mg / 1g [I0535]  
1g / 5g [O0574]  
1g / 5g [C3693]  
1g / 5g [I1026]  
200mg / 1g [I1031]

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