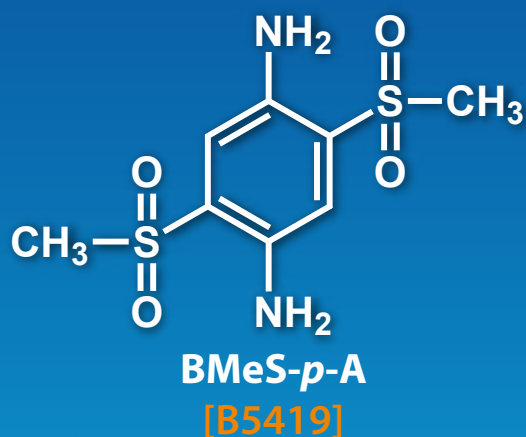


Green-Fluorescent Dye with Extremely Small Molecular Size

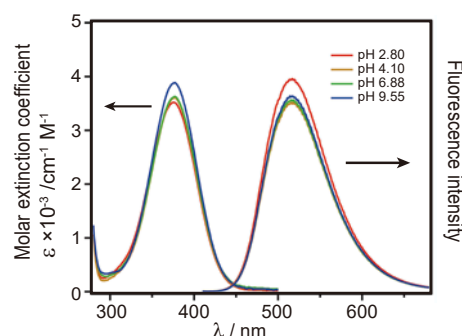
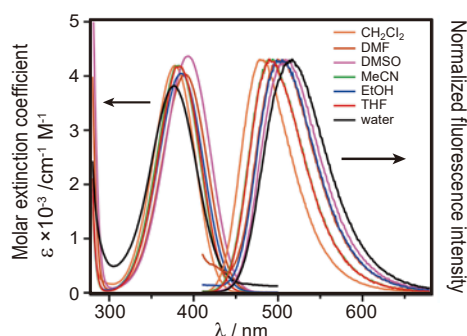
BMeS-*p*-A



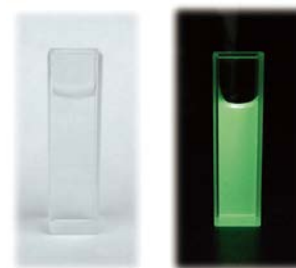
Advantages

- Single benzene molecule with green fluorescence
- High fluorescence quantum yield
- Solid-state emission
- Large Stokes shift
- Soluble in water or organic solvents
- Solvent- and pH-independent optical properties
- High photostability

BMeS-*p*-A is based on a novel molecular design involving hydrogen-bonding and a high dipole moment to control structural changes in the ground and excited state.



solvent	$\lambda_{\text{abs}}^{\text{max}}$ (nm)	$\lambda_{\text{em}}^{\text{max}}$ (nm)	Stokes shift (nm)	ϵ ($\text{M}^{-1}\text{cm}^{-1}$)	ϕ
THF	384	490	106	4170	0.51
MeOH	385	505	120	3990	0.47
DMSO	394	509	115	4360	0.70
Water	377	517	140	3820	0.64
powder	380	477	97	-	0.69



(a) *Angew. Chem. Int. Ed.* **2015**, *54*, 7332. (b) *Synfacts* **2015**, *11*, 0711. (c) *ChemPlusChem* **2014**, *79*, 536.

BMeS-*p*-A

200mg / 1g [B5419]

This product was commercialized in collaboration with Prof. Hiroshi Katagiri.

Ordering and Customer Service

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Fax : 021-6712-1385
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