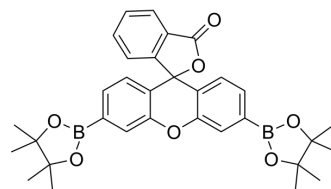


## Peroxyfluor 1

Cat. No.:	HY-D1458
CAS No.:	817170-66-4
Molecular Formula:	C <sub>32</sub> H <sub>34</sub> B <sub>2</sub> O <sub>7</sub>
Molecular Weight:	552.23
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 14.29 mg/mL (25.88 mM; ultrasonic and warming and adjust pH to 10 with 1M NaOH)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8108 mL	9.0542 mL	18.1084 mL
	5 mM	0.3622 mL	1.8108 mL	3.6217 mL
	10 mM	0.1811 mL	0.9054 mL	1.8108 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Peroxyfluor 1 is a cell-permeable probe for H<sub>2</sub>O<sub>2</sub>. Peroxyfluor 1 represents a first-generation, green-fluorescent probe<sup>[1]</sup>.

### REFERENCES

[1]. Evan W Miller, et al. Boronate-based fluorescent probes for imaging cellular hydrogen peroxide. J Am Chem Soc. 2005 Nov 30;127(47):16652-9.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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