

## Peroxyfluor 1

## Chemical Properties

CAS No. :	817170-66-4
Formula:	C32H34B2O7
Molecular Weight:	552.23
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Peroxyfluor 1 is a small molecule compound based on a fluorescent probe design, selectively responsive to hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ). Its boronate protecting group is oxidatively cleaved by H <sub>2</sub> O <sub>2</sub> , releasing a strong fluorescent signal, enabling the detection of intracellular reactive oxygen species levels. Peroxyfluor 1 is commonly used in oxidative stress and cell signal transduction research, offering high selectivity and sensitivity.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 11.43 mg/mL (20.7 mM),when pH is adjusted to 10 with NaOH. Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8108 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
50 mM	0.0362 mL	0.1811 mL	0.3622 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

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.

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