

5-(and-6)-Carboxy SNARF-1, Acetoxymethyl Ester, Acetate

Chemical Properties

CAS No. :	126208-13-7
Formula:	C ₃₂ H ₂₅ N ₉ O ₉
Molecular Weight:	567.55
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	The cell-permeant pH indicator, carboxy SNARF-1, acetoxymethyl ester, acetate (CAS #126208-13-7) has a pKa of ~7.5 after de-esterification, thus is useful for measuring pH changes between pH 7 and pH 8. Carboxy-SNARF-1 exhibits a significant pH-dependent emission shift from yellow-orange to deep red fluorescence under acidic and basic conditions, respectively. This pH dependence allows the ratio of the fluorescence intensities from the dye at two emission wavelengths - typically 580 nm and 640 nm - to be used for quantitative determinations of pH.
Targets(IC50)	Others
In vitro	Incubating cells in 1 ~ 10 μM SNARF AM acetate for 30 minutes at the optimum temperature for the specific cell type of interest is recommend. Then, cells should be washed before pH measurements.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.762 mL	8.8098 mL	17.6196 mL
5 mM	0.3524 mL	1.762 mL	3.5239 mL
10 mM	0.1762 mL	0.881 mL	1.762 mL
50 mM	0.0352 mL	0.1762 mL	0.3524 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.

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