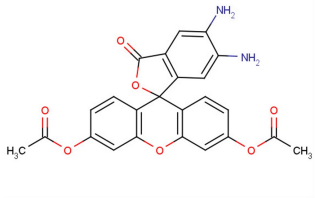
Data Sheet (Cat.No.T18966)

DAF 2DA

Chemical Properties



CAS No.:	205391-02-2
Formula:	C24H18N2O7
Molecular Weight:	446.41
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	DAF 2DA is widely used as a probe for NO measurement.
Targets(IC_{50})	Others: None
In vitro	Diaminofluorescein in diacetate form (DAF 2DA) is most widely probe for NO measurement. This method is based on application of DAF 2DA which is actively diffused into cells, once taken up by cells cytoplasmic esterases cleave the acetate groups to generate DAF 2DA. The generated DAF-2 can readily react with N2O3, which is an oxidation product of NO to generate the highly fluorescent DAF-2T (triazolofluorescein).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.24 mL	11.2 mL	22.401 mL
5 mM	0.448 mL	2.24 mL	4.48 mL
10 mM	0.224 mL	1.12 mL	2.24 mL
50 mM	0.045 mL	0.224 mL	0.448 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Wany A, et al. Localization of Nitric Oxide in Wheat Roots by DAF Fluorescence. Methods Mol Biol. 2016;1424:39-47.

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