

Product Information

CFDA (Carboxyfluorescein diacetate)

Catalog no.	Dye	Size
51018	5-CFDA (5-Carboxyfluorescein diacetate, single isomer)	100 mg
51021	6-CFDA (6-Carboxyfluorescein diacetate, single isomer)	100 mg
51014	5-(and 6)-Carboxyfluorescein diacetate (CFDA)	100 mg

Storage and Handling

Store at -20°C desiccated and protected from light. Product is stable for up to 12 months from date of receipt when stored as recommended as a solid.

Stock solutions may be prepared in anhydrous DMSO (catalog no. 90082). Solutions can be aliquoted and stored with desiccant and protected from light at -20°C, for 12 months.

Molecular Information: C₂₆H₁₆O₉

Molecular Weight: 460

Color and Form: Off-white solid

Absorption/Emission: 492/517 nm (pH 9, after hydrolysis)

Extinction Coefficient: 78,000 (pH 9, after hydrolysis)

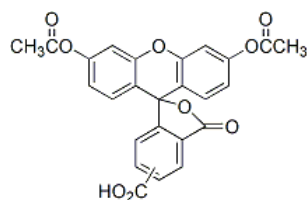


Figure 1. 5-(and 6)-Carboxyfluorescein diacetate (CFDA).

Product Description

Carboxyfluorescein diacetate (CFDA) is a membrane-permeant dye that fluoresces after being processed by intracellular esterases. Once processed, the carboxyfluorescein product has a pH-dependent spectral response similar to fluorescein, and requires cell membrane integrity to retain fluorescence within the cell. Therefore, CFDA can be used to monitor cell viability and intracellular pH.

References

- 1) Boitano, S., et al. *J. Cell Sci.* **98**, 343(1991).
- 2) Goodall, H., et al. *Nature* **295**, 524(1982).
- 3) Hansson, Y., et al. *J. Immunol. Meth.* **100**, 261(1987).
- 4) Bruning, J.W., et al. *J. Immunol. Meth.* **33**, 33(1980).

Related Products

Catalog number	Product
90082	DMSO, Anhydrous
90040	Carboxy-2',7'-dichlorofluorescein diacetate, succinimidyl ester, 5 and 6 isomers
90041	CFDA SE, 5 and 6 isomers
51015	5-(and-6)-Carboxy-2',7'-dichlorofluorescein
51016	5-(and-6)-Carboxy-2',7'-dichlorofluorescein diacetate
51017	5-Carboxy-2',7'-dichlorofluorescein (single isomer)
51023	5-Carboxy-2',7'-dichlorosulfonefluorescein
51012	BCECF, AM Ester
51009	BCECF, AM Ester, 1 mg/mL in Anhydrous DMSO
51010	BCECF, Free Acid
30050	ViaFluor® CFSE Cell Proliferation Kit
30068	ViaFluor® 405 SE Cell Proliferation Kit
30086	ViaFluor® 488 SE Cell Proliferation Kit
32002-32013	Live-or-Dye™ Fixable Viability Staining Kits
30026	Calcein AM Cell Viability Assay

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