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PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: 5-(and-6)-Carboxyfluorescein

CATALOG #: 51013

MOLECULAR $C_{21}H_{12}O_7$. **INFORMATION:** Mwt: 376.

[72088-94-9]

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PROPERTIES:

Color & FormYellow orange solidPurity $\geq 95\%$ by HPLC

Soluble in pH>6.5 H₂O (carboxyfluorescein is not soluble in pure water but highly soluble

in a >pH 6.5 buffer. Please note that the buffering strength of the buffer has to be

sufficient so that the pH stays the same after the dye is dissolved. Alternatively, you may suspend the solid dye in pure water and then add 1 to 2 equivalent of a base (such as

NaOH) to dissolve the dye).

 $\lambda_{ex} \setminus \lambda_{em}$ 492nm\514nm (pH 9)

 pK_a 6.5

Extinction 82,000 (pH 9)

Coefficient (ε)

STORAGE AND Stored desiccated at 4 °C upon receipt. Protect from light, especially when in solution.

HANDLING: Solution of the dye may be stored at 4 or -20 °C for at least 3 months.

APPLICATION: 5-(and-6)-Carboxyfluorescein has a pK_a of 6.5 and can be used as a pH sensor. The

excitation spectrum of the dye responds to pH similarly to that of BCECF.

Carboxyfluorescein can also be used as a tracer dye. The dye is membrane-impermeant

and can be loaded into cells by microinjection or scrape loading.

Ref: Weinstein, J.N., et al. Methods Enzymol. 128, 65(1986).

TOXICITY: Unknown

FIRST AID: Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on

clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move

individual to fresh air and seek medical advice immediately.

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