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PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME:

5-Carboxyrhodamine 110-PEO₁₂-propionate, succinimidyl ester, single isomer (5-CR110-PEO₁₂, SE)

CATALOG # 90086

MOLECULAR INFORMATION: C₅₂H₇₀N₄O₂₀ MWt: 1071.13



PROPERTIES:
Color & Form
Purity
Solubility
Absorption/Emission
Extinction
Coefficient
STORAGE AND
HANDLING:

Orange red solid ≥ 70% reactivity by TLC (remaining amount is free acid) Soluble in DMSO or DMF 502/524 nm (MeOH) >65,000 Store at -20 °C and protect from moisture and light

APPLICATION:

5-CR110-PEO₁₂, SE has a long, water-soluble PEG spacer between the green fluorescent rhodamine dye and the amine-reactive SE group. See Figure 7.5 for spectra and Figure 7.6 for photostability comparison with other dyes.

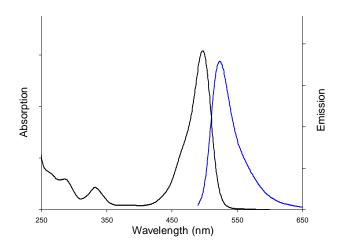


Figure 7.5 Absorption and emission spectra of CR110 and its derivatives in pH7 buffer.



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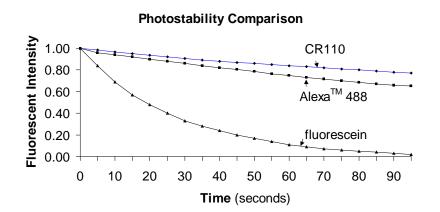


Figure 7.6 Photostability comparison of carboxyrhdamine 110-, fluorescein- and Alexa[™] 488. Carboxyrhodamine 110 is more photostable than fluorescein and Alexa[™] 488.

TOXICITY: Not established. Not listed by NTP, IARC or OSHA.

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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