

Lumiprobe Corporation

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

Calibro® Fluor 610 carboxylic acid

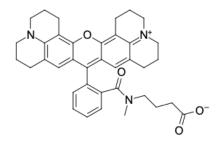
http://www.lumiprobe.com/p/cal-fluor-red-610-carboxylic-acid

Calibro[®] Fluor 610 is a vibrant fluorescent dye specifically designed for qPCR applications. This xanthene fluorophore is a spectral equivalent of carboxy-X-rhodamine (ROX).

The dye is highly stable and withstands all stages of synthesis and processing of oligonucleotides. Due to its structure, the problem of multiple isomers does not arise during the conjugation of the dye with biomolecules. The dye derivatives have a single RP-HPLC peak and well-defined emission spectra, greatly facilitating their production.

The dye can be used in conjunction with the fluorescence quencher DusQ 2.

Calibro® Fluor 610 carboxylic acid is a non-reactive form of Calibro® Fluor 610 dye that can be used as a reference standard in experiments involving Calibro® Fluor 610 dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines after activation by carbodiimides such as EDAC.



Structure of Calibro® Fluor 610 carboxylic acid

General properties

Appearance: dark crystals Molecular weight: 589.74 Molecular formula: $C_{37}H_{39}N_3O_4$

Solubility: good solubility in methylene chloride, DMF, DMSO, acetonitrile, acetone, methanol; limited solubility in

water; insoluble in ethyl acetate

Quality control: NMR ¹H and HPLC-MS (95+%)

Storage conditions: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks.

Desiccate.

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efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic

products.