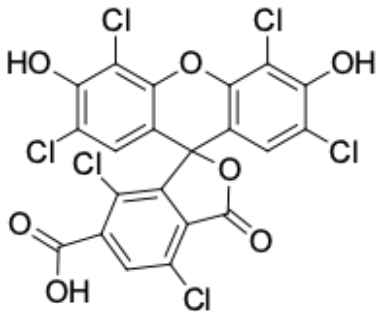
Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

HEX carboxylic acid, 6-isomer

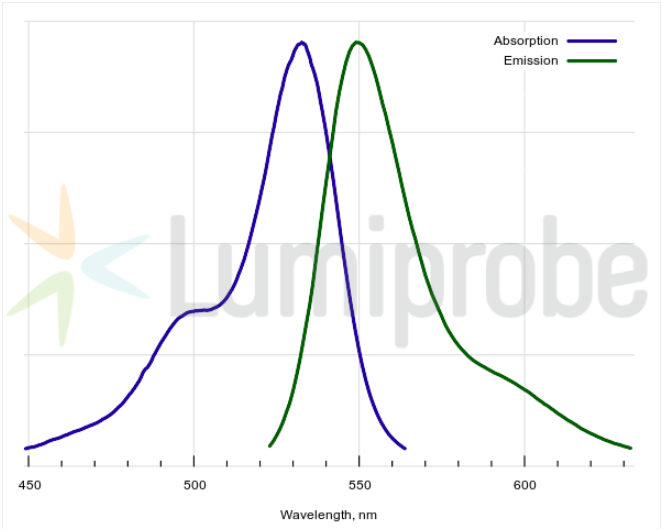
http://www.lumiprobe.com/p/hex-carboxylic-acid-6

Hexachlorofluorescein (HEX) is a hexachlorinated derivate of the fluorescent dye fluorescein. HEX-labeled oligonucleotides are used in PCR and the HEX channel is widely used in multiplex qPCR.

HEX carboxylic acid is a non-reactive form of HEX dye that can be used as a reference standard in experiments involving HEX dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of HEX carboxylic acid, 6-isomer



Absorption and emission spectra of HEX, 6-isomer

General properties

Appearance:	orange powder
Molecular weight:	582.99
Molecular formula:	$C_{21}H_6Cl_6O_7$
Solubility:	good in DMSO, DMF, methanol, basic solutions, limited in acetonitrile
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. Avoid prolonged exposure to light.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and 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.

Spectral properties

Excitation/absorption maximum, nm:	533
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	87770
Emission maximum, nm:	549
Fluorescence quantum yield:	0.57
CF_{260}:	0.30
CF_{280}:	0.13