

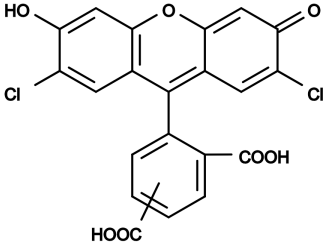
CDCF [5-(and-6)-Carboxy-2',7'-dichlorofluorescein] *Mixed isomers*

 Catalog number: 235
 Unit size: 100 mg

Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Orange solid
Molecular Weight	445.21
Soluble In	DMSO
Chemical Structure	

Spectral Properties

Excitation Wavelength	505 nm
Emission Wavelength	526 nm

Applications

CDCF [5(6)-carboxy-2',7'-dichlorofluorescein] is the fluorescent product of 5(6)-carboxy-2',7'-dichlorodihydrofluorescein diacetate and 5(6)-carboxy-2',7'-dichlorofluorescein diacetate in cells. The cell-permeant 5(6)-carboxy-2',7'-dichlorodihydrofluorescein diacetate (H2DCFDA) (also known as dichlorofluorescein diacetate) is a chemically reduced form of fluorescein used as an indicator for reactive oxygen species (ROS) in cells, for example to detect the generation of reactive oxygen intermediates in neutrophils and macrophages. Upon cleavage of the acetate groups by intracellular esterases and oxidation, the non-fluorescent H2DCFDA is converted to the highly fluorescent CDCF. 5(6)-carboxy-2',7'-dichlorofluorescein diacetate staining is used for studying multidrug resistance proteins [MRPs and P-glycoprotein (Pgp)].