

H₂DCFDA [2',7'-Dichlorodihydrofluorescein diacetate]

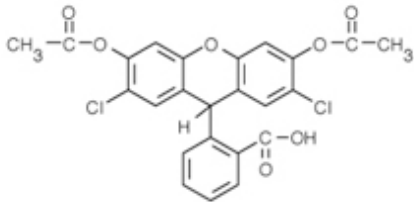
Catalog Number	Packaging Size
C263	50 mg

Storage upon receipt: -20°C, protected from light

Introduction

H₂DCFDA [2',7'-dichlorodihydrofluorescein diacetate] is a chemically reduced analogue of fluorescein used as an indicator for reactive oxygen species (ROS) in cells. Upon cleavage of the acetate groups by intracellular esterases and oxidation, the nonfluorescent H₂DCFDA is converted to the highly fluorescent 2',7'-dichlorofluorescein.

Specifications

Label:	2',7'-dichlorofluorescein	
Ex/Em:	495/529 nm	
Detection Method:	Fluorescent	
Molecular Formula:	C ₂₄ H ₁₆ Cl ₂ O ₇	
Molecular Weight:	487.29	
CAS Number:	4091-99-0	
Storage Conditions:	-20°C, protected from light	
Shipping Condition:	Room Temperature	

Applications

Probe for ROS

References:

1. [Thymosin β10 expression driven by the human TERT promoter induces ovarian cancer-specific apoptosis through ROS production.](#)
Kim YC, Kim BG, Lee JH,
PLoS One (2012) 7:e35399-e35399
2. [Complex N-glycan and metabolic control in tumor cells.](#)
Mendelsohn R, Cheung P, Berger L, Partridge E, Lau K, Datti A, Pawling J, Dennis JW,
Cancer Res (2007) 67:9771-9780
3. [Detecting enzymatic activity in cells using fluorogenic substrates.](#)
Haugland RP
Biotech Histochem (1995) 70:243-251