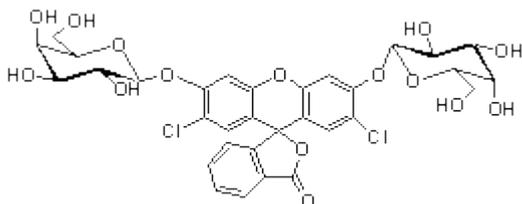


M1194 - 2', 7'-Dichlorofluorescein di-β-D-galactopyranoside (DCFDG)
(Dichlorofluorescein di-Galactoside, DCFDG)



Molecular Weight: 725.48

Storage: F, D, L

[C=Cold D=Desiccated F=Frozen L=Light Sensitive RT=Room Temperature]

Soluble: DMSO, DMF, sl. H₂O

Absorption: (in nm) 495

Extinction (10³): 529

Molecular Formula: C₃₂H₃₀Cl₂O₁₅

CAS Number: [N/A]

Alternative Name: Dichlorofluorescein di-Galactoside, DCFDG

Description:

Highly sensitive fluorescent substrate for measuring galactosidase and galactocerebrosidase activity inside of live cells and lysosomes.

Note:

High Purity Grade (>99%). Absorption and Emission were measured when product released fluorophore

Application:

This substrate releases the highly fluorescent fluorophore 2',7'-dichlorofluorescein (EX: 495nm / EM: 529 nm) at the site of galactosidase or galactocerebrosidase activity. Since the pKa of the released fluorophore is significantly lower than comparable fluorophores, it can retain appreciably more fluorescence in the highly acidic environment of the lysosome than other similar fluorophores. Note: Absorption prior to enzyme hydrolysis is 290 nm; 4.7K).

References:

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