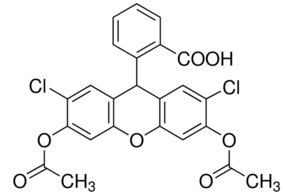
**2′,7′-Dichlorofluorescin diacetate MF2309**

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**Technical literature is available at:** [**www.mesgenbio.com**](http://www.mesgenbio.com)**. E-mail MesGen Technical Services if you have questions on use of this system: tech@mesgenbio.com**

**Synonym(s) :**DCFH-DA

**Appearance :** Powder , White to White w/ Yellow Cast

**Purity (TLC)**≥ 97.0%

**CAS Number :** 4091-99-0

**Beilstein Registry Number :** 4610273

**MDL number :** MFCD00128955

**Molecular Weight :**487.29

**Molecular Formula :** C24H16Cl2O7

**Ex (nm) :**504 **Em (nm) :** 529

**Description**

2′,7′-Dichlorofluorescin diacetate is a cell-permeable non-fluorescent probe. 2′,7′-Dichlorofluorescin diacetate is de-esterified intracellularly and turns to highly fluorescent 2′,7′-dichlorofluorescein upon oxidation.  
Applications include sensitive and rapid quantitation of oxygen-reactive species in response to oxidative metabolism; microplate assay for detecting oxidative products in phagocytic cells, and quantitative multiwell myeloid differentiation assay.

**Solvent & Solubility**

DMSO: ≥ 150 mg/mL

**Storage condition**

−20°C

**For Research Use Only. Not For Use In Diagnostic Procedures.**