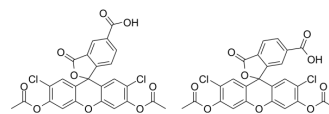


5(6)-Carboxy-2',7'-dichlorofluorescein diacetate

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-D1078 | | |
| CAS No.: | 127770-45-0 | | |
| Molecular Formula: | C ₂₅ H ₁₄ Cl ₂ O ₉ | | |
| Molecular Weight: | 529.28 | | |
| Target: | Reactive Oxygen Species | | |
| Pathway: | Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (236.17 mM; ultrasonic and warming and heat to 60°C)

| Concentration | Mass | | |
|---------------|-----------|-----------|------------|
| | 1 mg | 5 mg | 10 mg |
| 1 mM | 1.8894 mL | 9.4468 mL | 18.8936 mL |
| 5 mM | 0.3779 mL | 1.8894 mL | 3.7787 mL |
| 10 mM | 0.1889 mL | 0.9447 mL | 1.8894 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

5(6)-Carboxy-2',7'-dichlorofluorescein diacetate is a cell permeant fluorescent indicator. 5(6)-Carboxy-2',7'-dichlorofluorescein diacetate can be used to assess reactive oxygen species (ROS) generation within human neuronal-gial (HNG) cells in primary co-culture^[1]

REFERENCES

[1]. Pogue AI, et al. Metal-sulfate induced generation of ROS in human brain cells: detection using an isomeric mixture of 5- and 6-carboxy-2',7'-dichlorofluorescein diacetate (carboxy-DCFDA) as a cell permeant tracer. Int J Mol Sci. 2012;13(8):9615-26.

Caution: Product has not been fully validated for medical applications. For research use only.

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