Data Sheet (Cat.No.C0172)

TargetMol

Nile Red Staining Solution

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight
Store at -20°C
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Nile blue oxazone is a lipophilic fluorescent dye that can fluoresce when excited upon binding to lipids. It is commonly used as a fluorescent probe for detecting intracellular lipid droplets. Nile Red has significant environmental sensitivity fluorescence characteristics, with weak fluorescence in water and other polar solvents. However, when it binds to neutral fats and is excited, it can produce bright red or green fluorescence, with red fluorescence being stronger than green fluorescence (due to the wide emission spectrum range of Nile Red, red or green fluorescence can be selected by adjusting the excitation wavelength and emission wavelength). The maximum excitation wavelength of Nile Red is about 559 nm, and the maximum emission wavelength is about 635 nm. At this time, it emits red fluorescence and has fluorescent labeling on both lipid droplets and cell membranes; When the excitation wavelength is 485 nm and the emission wavelength is 535 nm, green fluorescence is emitted and only lipid droplets are labeled. Nile Red is suitable for staining live cells and fixed cells, and can be observed and analyzed through fluorescence microscopy and flow cytometry after staining.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481