

5(6)-TRITC [Tetramethylrhodamine-5-(and-6)-isothiocyanate]

Cat #: BGT-CHM-05100

Product Introduction

5(6)-TRITC can bind to various antibody or proteins without losing their specificity to bind to certain antigens, and they exhibit strong yellow-green fluorescence in alkaline solutions. By observing under a fluorescence microscope or analyzing with a flow cytometer, the corresponding antigens can be qualitatively, located, or quantitatively detected. It is used in medicine, agronomy, and animal husbandry, among other fields, for rapid diagnosis of diseases caused by bacteria, viruses, and parasites.

Product Properties

Molecular formula: C₂₅H₂₁N₃O₃S

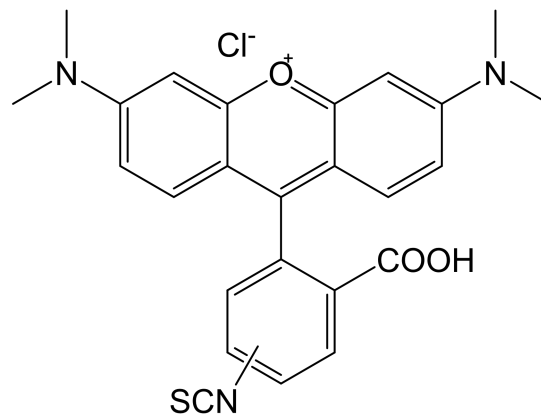
MW: 443.52

CAS: 107347-53-5

Purity: ≥95% (HPLC)

Appearance: Red powder

Structural formula:



Storage

Storage conditions: Store at -20°C protected from light.

Labeling Method

- (1) Prepare the protein solution with a concentration of at least 2 mg/mL in 0.1M, pH 9.0 Na₂CO₃.
- (2) Preparing TRITC solution in anhydrous DMSO with a concentration of 1 mg/mL in dark place; then cover it with aluminum foil to avoid light.
- (3) Slowly add 50μL of TRITC to 1mL of protein solution and gently shake to mix evenly in a darkroom.
- (4) Reacting in a darkroom at 4 °C for more than 8 hours; reacting at room temperature for 2 to 4 hours.
- (5) After the reaction is complete, add 1 mL of 100 mM NH₄Cl and react for another 2 hours to quench the unreacted TRITC.
- (6) Purified by column chromatography using PBS or other buffer.

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.