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Thiazole Orange NHS ester

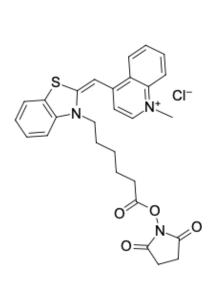
http://hk.lumiprobe.com/p/thiazole-orange-nhs-ester

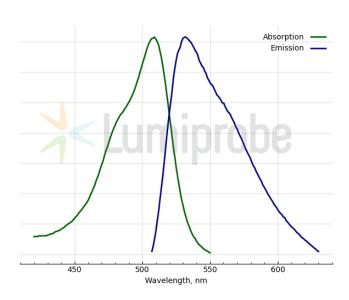
Thiazol Orange (TO) is an asymmetric cyanine dye whose fluorescence highly depends on the local environment. TO is essentially dark in solution; however, its fluorescence increases a thousandfold when TO is introduced into double-stranded DNA and RNA (dsDNA or dsRNA). When TO-labeled oligonucleotide is hybridized to its complementary sequence, TO acts as an intercalator.

TO fluorescence is also induced by interaction with supramolecular hosts and amino acid side chains, which allows it to be used for detecting not only nucleic acids and proteins but also other analytes such as ions and small molecules.

The maximum absorption of TO with DNA is 509 nm, and the maximum emission is 532 nm.

Thiazole Orange NHS ester effectively reacts with amines and is well suited for labeling biomolecules (peptides, proteins, amino-DNA, etc.) in an aqueous medium. Thiazole Orange NHS ester can be useful for studying the binding of nucleic acids to other biomolecules, such as DNA-binding proteins.





外观:

分子量: 538.07

分子式: C₂₈H₂₈CIN₃O₄S

质量控制:

储存条件:

法律声明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效

力測試,且未經明示或暗示授權用於其他任何用途,包括但不限於體外診斷、人類或動物用途,以及商

業用途

激发/吸收极大值,纳米: 509 发射极大值,纳米: 532