

## Thiazole Orange NHS ester

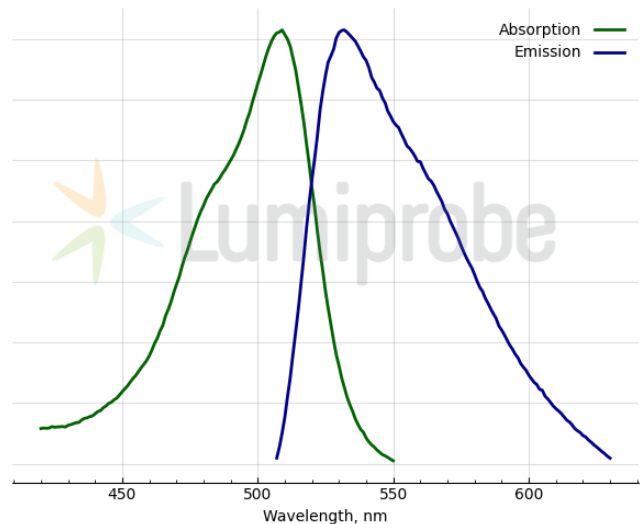
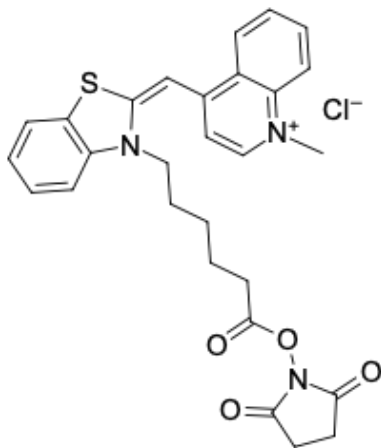
<http://cn.lumiprobe.com/p/thiazole-orange-nhs-ester>

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 538.07  
量:  
分子  $C_{28}H_{28}ClN_3O_4S$   
式:  
质量控制:  
储存条件:

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激发 509  
吸收  
极大值,  
纳米:  
发射 532  
极大值,  
纳米: