

Thiazole Orange NHS ester

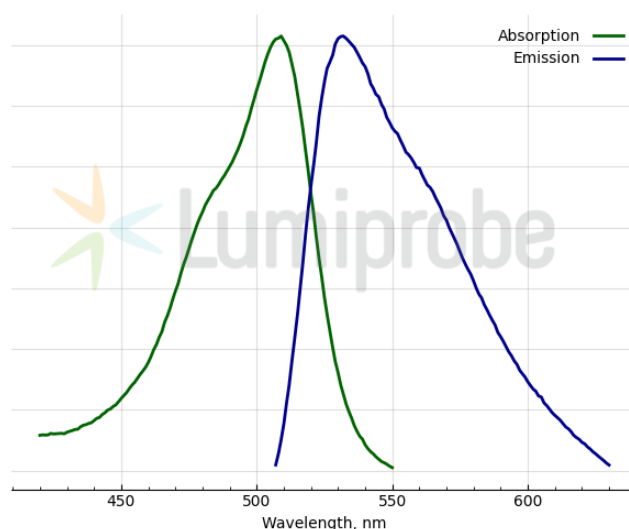
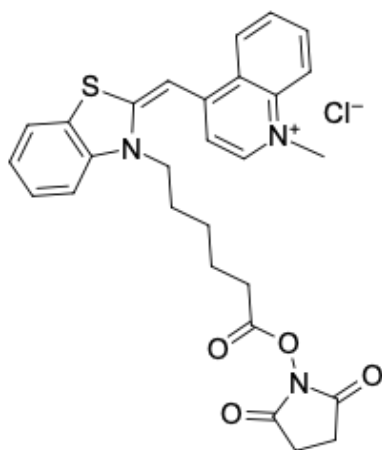
<http://cn.lumiprobe.com/p/thiazole-orange-nhs-ester>

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:

法律声明: 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。

激发/吸收极大值, 纳米: 509
发射极大值, 纳米: 532