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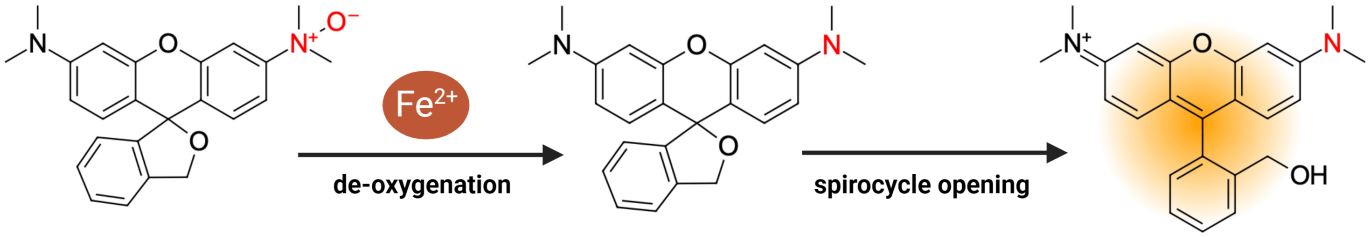
HMRhoNox-M, Fe(II)-selective fluorescent probe

http://cn.lumiprobe.com/p/hmrhonox-m

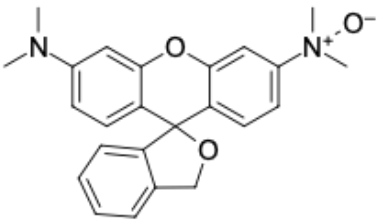
HMRhoNox-M (also known as LysoRhoNox) is a Fe^{2+}-selective fluorescent probe based on the N-oxide-controlled spirocyclization of tetramethyl-hydroxymethyl rhodamine.

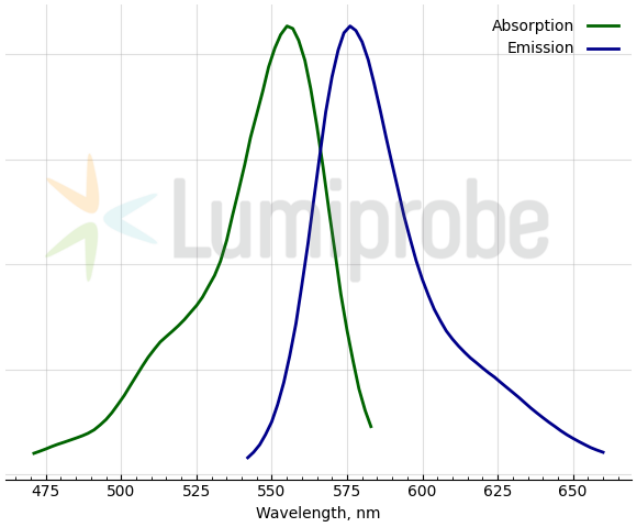
In the absence of Fe^{2+}, HMRhoNox-M exists in the non-fluorescent spirocyclic form showing only negligible fluorescence in an aqueous buffer and at physiological pH. The addition of Fe^{2+} induces a 60-fold increase of the fluorescence signal at 575 nm through the deoxygenation of the dialkylamino group and the transition of the probe to an open fluorescent form. HMRhoNox-M responds to Fe^{2+} in a dose-dependent manner.



The fluorescence response of HMRhoNox-M is highly selective for Fe^{2+} over other transition metal ions, including Fe^{3+}, alkali metal ions, and alkaline earth metal ions.

HMRhoNox-M is the cell-permeant probe that is mainly localized in lysosomes. It is suitable for monitoring fluctuations of endogenous labile iron in living cells, including the transferrin-induced Fe uptake.





外观:

分子量: 388.47

分子式: $C_{24}H_{24}N_2O_3$

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:	555
发射极大值，纳米:	575