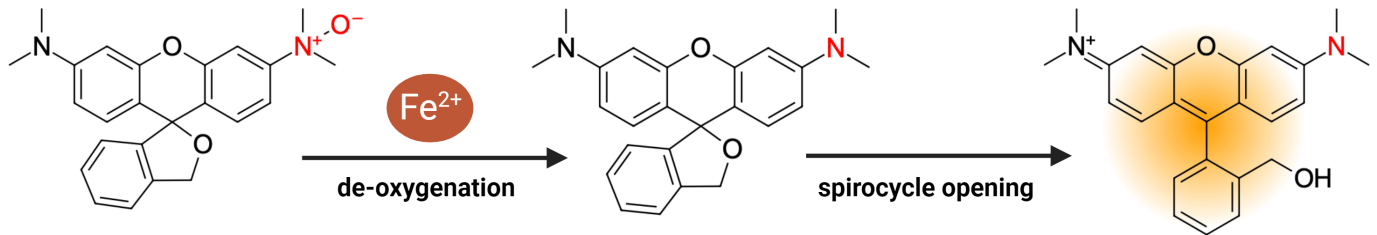


HMRhoNox-M, Fe(II)-selective fluorescent probe

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

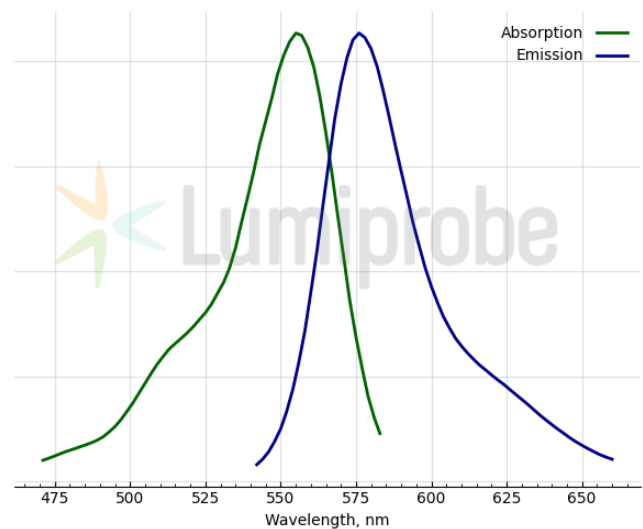
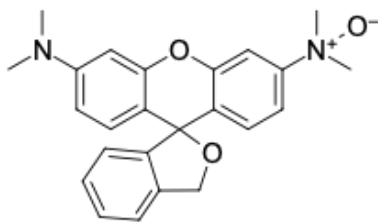
HMRhoNox-M (also known as LysoRhoNox) is a Fe^{2+} -selective fluorescent probe based on the N-oxide-controlled spirocyclization of tetramethyl-hydroxymethyl rhodamine.

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 388.47

量:

分子 $\text{C}_{24}\text{H}_{24}\text{N}_2\text{O}_3$

式:

溶解

度:

质量

控制:

储存

条件:

明:

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激发 555

吸收
极大
值，
纳米：

发射 575

极大
值，
纳米：