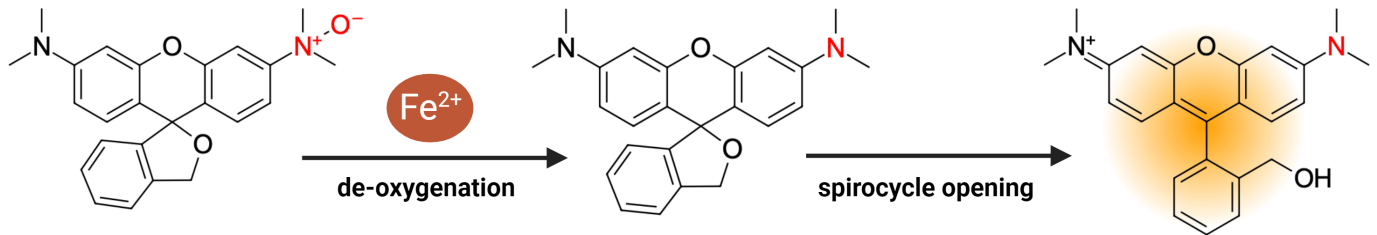


HMRhoNox-M, Fe(II)-selective fluorescent probe

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

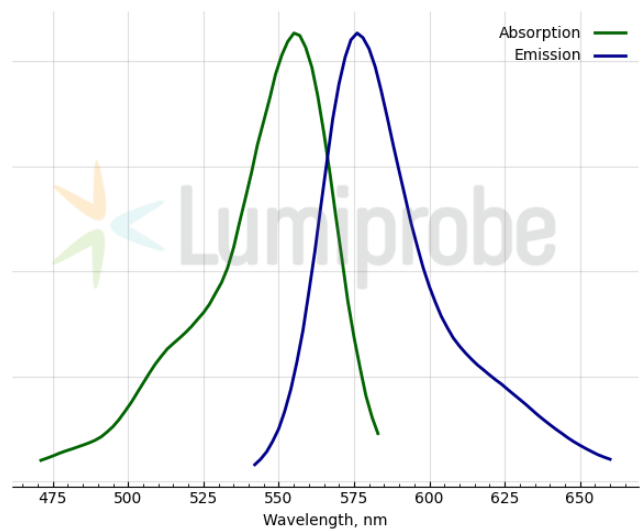
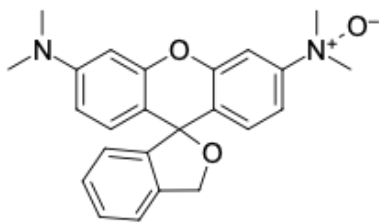
HMRhoNox-M (also known as LysoRhoNox) is a Fe²⁺-selective fluorescent probe based on the N-oxide-controlled spirocyclization of tetramethyl-hydroxymethyl rhodamine.

In the absence of Fe²⁺, HMRhoNox-M exists in the non-fluorescent spirocyclic form showing only negligible fluorescence in an aqueous buffer and at physiological pH. The addition of Fe²⁺ 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 Fe²⁺ in a dose-dependent manner.



The fluorescence response of HMRhoNox-M is highly selective for Fe²⁺ over other transition metal ions, including Fe³⁺, 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 C₂₄H₂₄N₂O₃

式:

溶解

度:

质量

控制:

储存

条件:

明:

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 555

吸收
极大
值，
纳
米：

发射 575

极大
值，
纳
米：