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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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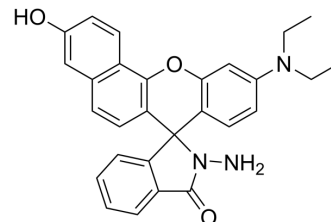
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Mito-PN

Cat. No.:	HY-D1150
Molecular Formula:	C ₂₈ H ₂₅ N ₃ O ₃
Molecular Weight:	451.52
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Mito-PN is a multifunctional dye. Dyes are important tools in biological experiments. They can help researchers observe and analyze cell structures, track biomolecules, evaluate cell functions, distinguish cell types, detect biomolecules, study tissue pathology and monitor microorganisms. Their applications range from basic scientific research to clinical A wide range of diagnostics. Dyes are also widely used in traditional fields such as textile dyeing, as well as in emerging fields such as functional textile processing, food pigments and dye-sensitized solar cells.
In Vitro	In the fluorescence spectra, the solution of free probe Mito-PN (5 μM) displays a negligible fluorescence emission in the aqueous solution containing phosphate buffered solution (PBS, 20 mM, pH = 7.4). The non-fluorescence property of probe Mito-PN might be ascribed to the inherent structure of a spiro-lactone. As expected, the considerable fluorescence enhancement (about 40-fold) at 630 nm was observed upon addition of ONOO ⁻ . Surprisingly, a fast response of probe Mito-PN for detecting ONOO ⁻ (<5 s) was achieved, and this feature is advantageous than the reported conjugation of rhodamine and phenylhydrazine (the complete reaction needs about 1 h). The fast response enables probe Mito-PN convenient to track the highly reactive and short-lived ONOO ⁻ in the biological systems. Meanwhile, the absorption spectral properties of probe Mito-PN were also investigated. Probe Mito-PN exhibited an obvious increase at about 570 nm upon addition of ONOO ⁻ [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sultana M, et al. A review on experimental chemically modified activated carbon to enhance dye and heavy metals adsorption[J]. Cleaner engineering and technology, 2022, 6: 100382.

Caution: Product has not been fully validated for medical applications. For research use only.

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