



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

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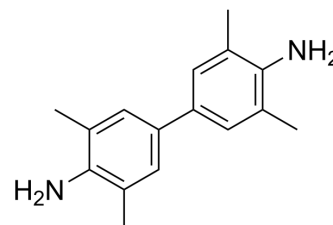
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TMB (Standard)

Cat. No.:	HY-15930R
CAS No.:	54827-17-7
Molecular Formula:	C ₁₆ H ₂₀ N ₂
Molecular Weight:	240.34
Target:	Fluorescent Dye; Reactive Oxygen Species
Pathway:	Others; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

TMB (Standard) is the analytical standard of TMB. This product is intended for research and analytical applications. TMB is a non-toxic, non-mutagenic, colorless dye that is also used as a chromogenic agent in enzyme detection systems based on horseradish peroxidase (HRP). TMB can function as a photoacoustic probe for reactive oxygen and nitrogen species (ROS/RNS), reacting with hypochlorite, hydrogen peroxide, singlet oxygen, and nitrogen dioxide to produce blue oxidation products. TMB can detect the singlet oxygen produced by the outer membrane of *Escherichia coli* ATCC 25922^{[1][2]}.

REFERENCES

- [1]. Bresolí-Obach R, et al. Tetramethylbenzidine: An Acoustogenic Photoacoustic Probe for Reactive Oxygen Species Detection. *Sensors (Basel)*. 2020 Oct 21;20(20):5952.
- [2]. Frey A, et al. A stable and highly sensitive 3,3',5,5'-tetramethylbenzidine-based substrate reagent for enzyme-linked immunosorbent assays. *J Immunol Methods*. 2000 Jan 13;233(1-2):47-56.

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

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