



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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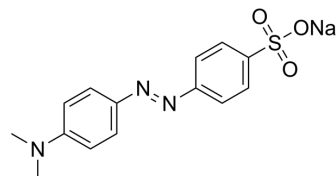
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Methyl Orange (Standard)

Cat. No.:	HY-118907R
CAS No.:	547-58-0
Molecular Formula:	C ₁₄ H ₁₄ N ₃ NaO ₃ S
Molecular Weight:	327.33
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Methyl Orange (Standard) is the analytical standard of Methyl Orange. This product is intended for research and analytical applications. Methyl Orange is a soluble azo dye commonly used as an acid-base indicator and for staining cells and tissue sections, as well as for dyeing textiles. Methyl Orange appears red at a pH of 3.1 and changes to bright yellow as the pH increases to 4.4. Methyl Orange (500 mg/L) exhibits cytotoxicity and can cause DNA damage^{[1][2][3]}.

REFERENCES

- [1]. Ahmad M, et al. Photocatalytic degradation of methyl orange from wastewater using a newly developed Fe-Cu-Zn-ZSM-5 catalyst. Environ Sci Pollut Res Int. 2020;27(21):26239-26248.
- [2]. Alaguprathana M, et al. Cytogenotoxicity assessment in Allium cepa roots exposed to methyl orange treated with Oedogonium subplagiostomum AP1. Environ Res. 2022 Oct;213:113612.
- [3]. 张, 李. 甲基橙对斑马鱼胚胎的毒性作用[J]. 环境毒理学杂志, 2017, 37(5): 80-87.
- [4]. Sandberg, et al. Kinetics of acid dissociation-ion recombination of aqueous methyl orange. The Journal of Physical Chemistry. 1972, 76 (26): 4023-4025. of aqueous methyl orange. The Journal of Physical Chemistry. 1972

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

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