Product Information

4-Chloro-1-naphthol

Tablet

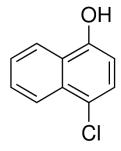
C6788

Product Description

Synonyms: 4-chloronaphthalen-1-ol, 4-CN

(4-chloro-1-naphthol component)

CAS Registry Number: 604-44-4 (4-CN component) Molecular Formula: C₁₀H₇OCl (4-CN component) Molecular Weight: 178.61 (4-CN component)



4-Chloro-1-naphthol (4CN) is a horseradish peroxidase (HRP) substrate. The reaction of 4CN with HRP produces 4-chloro-1-naphthon,¹ a blue insoluble end-product that can be visually observed.²⁻⁴ 4CN is suitable for various applications, including:

- Immunoblotting procedures^{5,6}
- Dot blot procedures⁷⁻¹⁰
- Dot ELISA procedures^{11,12}
- Immunocytochemistry analysis¹³

Several theses^{14,15} and dissertations¹⁶⁻²¹ have cited use of product C6788 in their research protocols.

Reagent

Each tablet contains 30 mg of 4CN. This product comes in various package sizes, with the following specified numbers of tablets per box:

- 5 tablets (5TAB)
- 50 tablets (50TAB)
- 100 tablets (100TAB)

The tablets are individually foil wrapped for ease of use, storage, and safety.

Precautions and Disclaimer

This product is for R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the tablets at -20 °C. Protect from heat, light, and moisture.

Preparation Instructions

Triethanolamine-buffered saline preparation

To prepare 1 L of Triethanolamine-buffered saline:

- 1. Add 7.5 g of NaCl 2.8 mL of triethanolamine, and 17 mL of 1 M HCl to $\sim\!800$ mL of water.
- 2. Adjust the pH to 7.5 if necessary.
- 3. Bring the final volume to 1 L with water.

Substrate Solution Preparation

- Allow tablet to reach room temperature before use.
- 2. Dissolve 1 tablet in 10 mL of methanol.
- 3. Add 2 mL of tablet stock solution in methanol to 10 mL of triethanolamine-buffered saline, pH 7.5.
- 4. Add 5 μ L of fresh 30% hydrogen peroxide (H_2O_2) immediately prior to use.

References

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