

Product Information

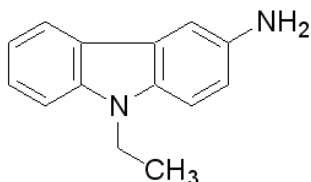
3-Amino-9-ethylcarbazole, tablets

Catalog Number **A6926**
Store at Room Temperature

CAS RN 132-32-1
Synonyms: AEC, 9-Ethylcarbazol-3-amine

Product Description

Molecular Formula: C₁₄H₁₄N₂
Formula Weight: 210.27



3-Amino-9-ethylcarbazole (AEC) is a chromogen suitable for use in immunoblotting and immunohistochemical staining procedures, which utilize horseradish peroxidase (HRP) conjugates. This substrate produces an insoluble end product that is red in color and can be observed visually, in 0.05 M acetate buffer at pH 5.¹⁻² An aqueous mounting medium should be used with this product, as the end product is alcohol-soluble.

Each tablet contains 20 mg of AEC substrate.

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.

Preparation Instructions

Solubility test: 1 tablet dissolves in 5 mL of *N,N*-dimethylformamide (DMF).

For use as an HRP substrate: Dissolve 1 tablet in 2.5 mL of DMF. Add 2.5 mL of the AEC/DMF solution to 47.5 mL of 50 mM acetate buffer, pH 5.0, with stirring. Add 25 µL of fresh 30% (w/w) hydrogen peroxide immediately prior to use. Filter through a 0.2 µm filter if necessary.

Preparation of 50 mM acetate buffer, pH 5.0: Add 74 mL of 0.2 M acetic acid (11.55 mL of glacial acetic acid/L) and 176 mL of 0.2 M sodium acetate (27.2 g of sodium acetate trihydrate per 1 L) to 750 mL of deionized water and mix.

Storage/Stability

Store the tablets at room temperature.

References

1. Graham, R.C., Jr., *et al.*, *J. Histochem. Cytochem.*, **13(2)**, 150-152 (1965).
2. Kaplow, L.S., *Am. J. Clin. Path.*, **63(3)**, 451 (1975).

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