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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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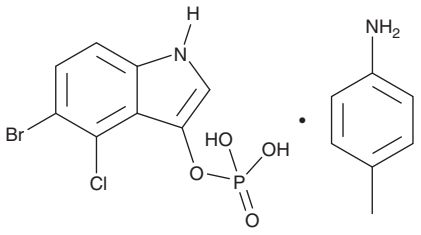
PRODUCT INFORMATION

BCIP (*p*-toluidine salt)

Item No. 34423

CAS Registry No.: 6578-06-9
Formal Name: 5-bromo-4-chloro-1H-indol-3-ol 3-(dihydrogen phosphate) compd. with 4-methylbenzenamine
Synonym: 5-Bromo-4-chloro-3-indoyl phosphate
MF: $C_8H_6BrClNO_4P \bullet C_7H_9N$
FW: 433.6
Purity: ≥95%
UV/Vis.: λ_{max}: 232 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BCIP (*p*-toluidine salt) is supplied as a solid. A stock solution may be made by dissolving the BCIP (*p*-toluidine salt) in the solvent of choice, which should be purged with an inert gas. BCIP (*p*-toluidine salt) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of BCIP (*p*-toluidine salt) in these solvents is approximately 30 mg/ml.

BCIP (*p*-toluidine salt) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BCIP (*p*-toluidine salt) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BCIP (*p*-toluidine salt) has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BCIP is a colorimetric substrate for alkaline phosphatase.[1,2] Upon enzymatic cleavage by alkaline phosphatase, an indoxyl intermediate is released and subsequently oxidized to produce water-insoluble indigo. It can be used to detect alkaline phosphatase activity by immunohistochemistry (IHC) or Western blot (WB).

References

1. Epstein, E., Wolf, P.L., Horwitz, J.P., *et al.* An indigogenic reaction for alkaline phosphatase in disk electrophoresis. *Am. J. Clin. Pathol.* **48(5)**, 530-534 (1967).
2. Wolf, P.L., Horwitz, J.P., Vasquez, J., *et al.* The indigogenic reaction for histochemical demonstration of alkaline and acid phosphatase. *Experientia* **23(3)**, 183-185 (1967).

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