
Product Data Sheet

Product Name: BCIP (BCIP p-toluidine salt)

Cat. No.: GC33474

Chemical Properties

Cas. No. 6578-06-9

SMILES C1C=C(Br)C=CC2=C1C(OP(O)(O)=O)=CN2.NC3=CC=C(C)C=C3

Formula $C_{15}H_{15}BrClN_2O_4P$ M.Wt 433.62

Solubility DMSO : ≥ 51 mg/mL (117.61 mM) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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).

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)

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

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