

BCIP

Chemical Properties

CAS No. : 6578-06-9

Formula: C₁₅H₁₅BrClN₂O₄P

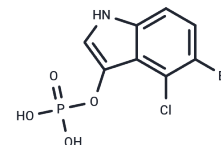
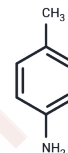
Molecular Weight: 433.62

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	BCIP (BCIP p-toluidine salt) (BCIP p-toluidine salt) is an artificial chromogenic substrate. It is used for the sensitive colorimetric detection of alkaline phosphatase activity.
Targets(IC50)	Others
In vitro	<p>Instructions</p> <p>1. Solution preparation: Stock solution: Prepare BCIP stock solution, usually at a concentration of 50 mg/mL. Dissolve BCIP in an appropriate amount of dimethylformamide (DMF) or water and store at -20°C in the dark for several weeks. Working solution: Dilute BCIP to the desired concentration (usually 0.15–0.5 mg/mL) in an appropriate substrate buffer. The buffer is usually Tris-HCl (pH 9.5), and MgCl₂ (1–5 mM) is added to enhance enzyme activity.</p> <p>2. Blotting: Block nonspecific binding after protein, membrane transfer after electrophoresis, or nucleic acid transfer. Add alkaline phosphatase-labeled antibodies or probes, incubate according to the experimental protocol, and wash to remove unbound portions. Add BCIP/NBT (Nitro Blue Tetrazolium) working solution and incubate in the dark until color development is complete (usually 5–30 minutes). Terminate the reaction with distilled water and dry the membrane for result analysis.</p> <p>3. Histochemical staining: After reacting tissue sections or cell samples with ALP-related antibodies or probes, wash them clean. Add BCIP working solution, incubate until color development is complete, and terminate the reaction with PBS or water.</p> <p>4. Observe the staining results under a microscope.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

A DRUG SCREENING EXPERT

Solubility	DMSO: 245 mg/mL (565.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3062 mL	11.5308 mL	23.0617 mL
5 mM	0.4612 mL	2.3062 mL	4.6123 mL
10 mM	0.2306 mL	1.1531 mL	2.3062 mL
50 mM	0.0461 mL	0.2306 mL	0.4612 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Common buffers, media, and stock solutions. Curr Protoc Hum Genet. 2001 May;Appendix 2:Appendix 2D.
- Yoshida G, Kawabata T, Takamatsu H, Saita S, Nakamura S, Nishikawa K, Fujiwara M, Enokidani Y, Yamamuro T, Tabata K, Hamasaki M, Ishii M, Kumanogoh A, Yoshimori T. Degradation of the NOTCH intracellular domain by elevated autophagy in osteoblasts promotes osteoblast differentiation and alleviates osteoporosis. Autophagy. 2022 Oct;18(10):2323-2332.
- Trinh le A, et al. Fluorescent in situ hybridization employing the conventional NBT/BCIP chromogenic stain. Biotechniques. 2007 Jun;42(6):756-9.

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