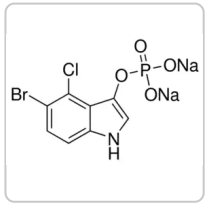

All Photos (1)

Documents

SDS

COO/COA

Specification Sheet

More Documents

B6149 ▶ Sigma-Aldrich®

5-Bromo-4-chloro-3-indolyl phosphate disodium salt

★★★★★ (0)

≥98% (HPLC)

Synonym(s):
5-BCIP disodium salt, BCIP®, X-phosphate disodium salt

Linear Formula:
$C_8H_4BrClNO_4P \cdot 2Na$

CAS Number:	102185-33-1	**Molecular Weight:**	370.43
MDL number:	MFCD00036757	**PubChem Substance ID:**	24891897
NACRES:	NA.83		

SKU	Pack Size	Availability	Price	Quantity
B6149-25MG	25 MG	Available to ship on October 10, 2022 Details...	€41.80	− +
B6149-50MG	50 MG	Only 4 left in stock (more on the way) Details...	€80.40	− +
B6149-100MG	100 MG	Only 1 left in stock (more on the way) Details...	€115.00	− +
B6149-500MG	500 MG	Only 6 left in stock (more on the way) Details...	€403.00	− +
B6149-1G	1 G	Only 5 left in stock (more on the way) Details...	€592.00	− +

SKU	Pack Size	Availability	Price	Quantity
B6149-5G	5 G	Estimated to ship on November 01, 2022	€2,430.00	− +

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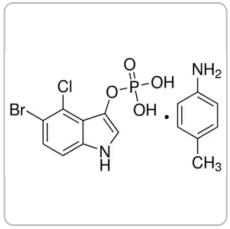


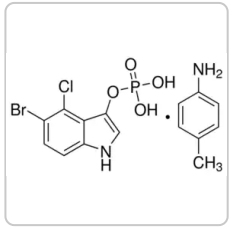
Sigma-Aldrich

B8503

5-Bromo-4-chloro-3-indolyl phosphate *p*-toluidine salt

≥99% (HPLC)

View Price and Availability



Sigma-Aldrich

B6777

5-Bromo-4-chloro-3-indolyl phosphate *p*-toluidine salt

BioReagent, for molecular biology, powder, ≥99%

View Price and Availability

PROPERTIES

Quality Level	200
assay	≥98% (HPLC)

form	powder
solubility	H_2O: 20 mg/mL DMF: insoluble
storage temp.	−20°C
SMILES string	[Na+].[Na+].[O-]P([O-])(=O)Oc1c[nH]c2ccc(Br)c(Cl)c12
InChI	1S/C8H6BrClNO4P.2Na/c9-4-1-2-5-7(8(4)10)6(3-11-5)15-16(12,13)14;;/h1-3,11H,(H2,12,13,14);;/q;2*+1/p-2
InChI key	OAZUOCJOEUNDEK-UHFFFAOYSA-L

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Related Categories

Detection Substrates & Enzymes

DESCRIPTION

Application

5-Bromo-4-chloro-3-indolyl phosphate disodium salt has been used to detect protein-antibody complexes. It has also been used for tissue staining in alkaline phosphatase histochemistry.

For the colorimetric detection of alkaline phosphatase-labeled molecules, 5-Bromo-4-chloro-3-indolyl phosphate (BCIP) and Nitro Blue Tetrazolium (NBT) are available. The BCIP/NBT substrate system is versatile and functions in a variety of applications, including Northern Southern, and Western blotting, *in situ* hybridization, and immunohistochemistry.

BCIP is provided in two salt forms: the disodium salt which is soluble in water and the p-toluidine form which is soluble in dimethylformamide. These salt forms may be used to prepare a stock solution that in combination with NBT and a reaction buffer, form a substrate solution for alkaline phosphatase. This substrate system, when incubated with alkaline phosphatase, produces an insoluble NBT diformazan product that is easily observable with its purple color. For added convenience, a mixture of BCIP and NBT is provided in an easily dissolvable tablet form or as a ready-to-use liquid.

Packaging

25, 50, 100 mg in poly bottle

500 mg in poly tube

1, 5 g in poly bottle

Substrates

Histochemical substrate for alkaline phosphatase.

Legal Information

BCIP is a registered trademark of Sigma-Aldrich Co. LLC

SAFETY INFORMATION

Storage Class Code	WGK	Flash Point(F)	Flash Point(C)
13 - Non Combustible Solids	WGK 3	Not applicable	Not applicable

Personal Protective Equipment

dust mask type N95 (US),
Eyeshields, **Gloves**

DOCUMENTATION

Certificate of Analysis

Enter Lot Number to search for Certificate of Analysis (COA).

Lot Number

e.g. 023J5431

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Certificate of Origin

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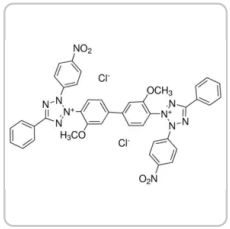


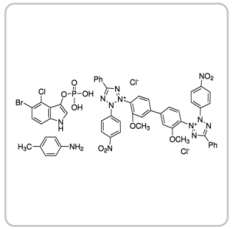
Sigma-Aldrich

N6639

Nitrotetrazolium Blue chloride

powder, electrophoresis grade

View Price and Availability



Sigma-Aldrich

72091

NBT-BCIP® solution

BioReagent, suitable as substrate for alkaline phosphatase in dot blots

View Price and Availability

PEER REVIEWED PAPERS

The impact of fixatives on the binding of lectins to N-acetyl-glucosamine residues of human syncytiotrophoblast: a quantitative histochemical study.

P E Høyer et al.
The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society, 44(8), 855-863 (1996-08-01)

We describe a quantitative histochemical method for demonstration of five N-acetyl-glucosamine binding lectins in the syncytiotrophoblast of human term placenta. The method employs biotinylated lectins and alkaline phosphatase-conjugated avidin. The alkaline phosphatase activity is detected by using 5-bromo-4-chloro-indoxyl phosphate as

The endosomal protein endotubin is required for enterocyte differentiation

Cox CM, et al.
Cellular and molecular gastroenterology and hepatology, 5(2), 145-156 (2018)

Chlamydia trachomatis secretion of an immunodominant hypothetical protein (CT795) into host cell cytoplasm.

Manli Qi et al.
Journal of bacteriology, 193(10), 2498-2509 (2011-03-29)

The Chlamydia-specific hypothetical protein CT795 was dominantly recognized by human antisera produced during C. trachomatis infection but not by animal antisera raised against dead chlamydia organisms. The immundominant region recognized by the human antibodies was mapped to the N-terminal fragment

---

Hsp70-nucleotide exchange factor (NEF) Fes1 has non-NEF roles in degradation of gluconeogenic enzymes and cell wall integrity.

Shailesh Kumar et al.
PLoS genetics, 15(6), e1008219-e1008219 (2019-06-27)

Fes1 is a conserved armadillo repeat-containing Hsp70 nucleotide exchange factor important for growth at high temperature, proteasomal protein degradation and prion propagation. Depleting or mutating Fes1 induces a stress response and causes defects in these processes that are ascribed solely

---

Thermal preference ranges correlate with stable signals of universal stress markers in Lake Baikal endemic and Holarctic amphipods

Axenov-Gribanov D, et al
PLoS ONE, 11(10), e0164226-e0164226 (2016)

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Articles

Colorimetric Alkaline Phosphatase and Peroxidase Substrate Detection Systems

Nitroblue Tetrazolium (NBT) is used with the alkaline phosphatase substrate 5-Bromo- 4-Chloro-3-Indolyl Phosphate (BCIP) in western blotting and immunohistological staining procedures. These substrate systems produce an insoluble NBT diformazan end product that is blue to purple in color and can be...

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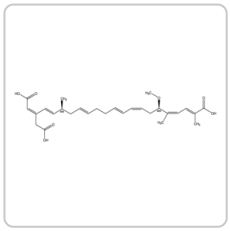

Sigma-Aldrich

B6179

Bongkrekic acid solution

from *Pseudomonas cocovenenans*, ≥95% (HPLC), ~1 mg/mL

View Price and Availability

Sigma-Aldrich

B6185

Bionic™ Buffer, 10X Concentrate

for Northern and Southern blotting, solution

View Price and Availability

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★★★★★

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Questions

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