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DATASHEET

NBT/BCIP Solution (Ready to Use)

Product overview

Name NBT/BCIP Solution (Ready to Use)
Cat No HB0713
Biological description Ready to use formulation:

Overview

Suitable as substrate for alkaline phosphatase detection in applications such as IHC & immunoblotting (e.g. Dot blot). Produces an insoluble, blue- purple end product following reaction with alkaline phosphatase (AP).

Contents

Solution of 0.48 mM NBT, 0.56 mM BCIP, 10 mM Tris and 59.3 mM MgCl₂, pH approx. 9.2

Biological action Substrate
Description Alkaline phosphatase detection substrate. Ready to use solution.

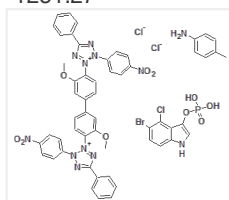
Solubility & Handling

Storage instructions +4 °C
Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name 5-Bromo-4-chloro-3-indolyl phosphate disodium salt and 2,2-bis(4-Nitrophenyl)-5,5-diphenyl-3,3-(3,3-dimethoxy-4,4-diphenylene)ditetrazolium chloride
Molecular Weight 1251.27

Chemical structure



Molecular Formula C₅₅H₄₅BrCl₃N₁₂O₁₀P
PubChem identifier 71312258
SMILES CC1=CC=C(C=C1)N.COC1=C(C=CC(=C1)C2=CC(=C(C=C2)[N+])3=NC(=NN3C4=CC=C(C=C4)[N+](=O)[O-])C5=CC=CC=C5OC)[N+])6=NC(=NN6C7=CC=C(C=C7)[N+](=O)[O-])C8=CC=CC=C8.C1=C(C(=C(C2=C1NC=C2OP(=O)(O)O)Cl)Br.[Cl-].[Cl-]
InChiKey GDPIIVBMSORRQ-UHFFFAOYSA-L

References

A high-resolution, fluorescence-based method for localization of endogenous alkaline phosphatase activity

Cox WG *et al* (1999) J Histochem Cytochem 47(11)

PubMedID [10544217](#)

Fluorescent in situ hybridization employing the conventional NBT/BCIP chromogenic stain

Trinh le A *et al* (2007) Biotechniques 42(6)

PubMedID [17612300](#)

A multiple-staining procedure for the detection of different DNA fragments on a single blot

West S *et al* (1990) Anal Biochem 190(2)

PubMedID [1705397](#)
