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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

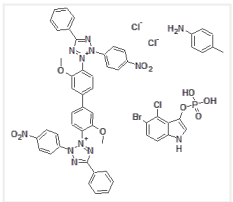
Solution of 0.48 mM NBT, 0.56 mM BCIP, 10 mM Tris and 59.3 mM MgCl2, pH approx. 9.2

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	$C_{55}H_{45}BrCl_3N_{12}O_{10}P$
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=C5)OC)[N+]6=NC(=NN6C7=CC=C(C=C7)[N+](=O)[O-])C8=CC=CC=C8.C1=CC(=C(C2=C1NC=C2OP(=O)(O)O)Cl)Br.[Cl-].[Cl-]
InChiKey	GDPIIVBVMSORRQ-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