Product datasheet

Nitrotetrazolium blue chloride (NBT) ab146262

1 References

Overview

Product name                Nitrotetrazolium blue chloride (NBT)
Description             Chromogenic substrate.
Biological description    Chromogenic substrate for dehydrogenases and other oxidases that, like other tetrazolium compounds, can be reduced to produce a colored formazan derivative. Acts as an NADPH-diaphorase substrate that competitively inhibits nitric oxide synthase. Used for detection of alkaline phosphatase in combination with 5-bromo-4-chloro-3-indoxyl phosphate (BCIP).

Properties

Chemical name              3,3’-[3,3’-Dimethoxy(1,1’-biphenyl)-4,4’-diyl]bis[2-(4-nitrophenyl)-5-phenyl-2H-tetrazolium dichloride
Molecular weight           817.64
Chemical structure

Molecular formula          C_{40}H_{30}Cl_{2}N_{10}O_{6}
CAS Number                298-83-9
Storage instructions      Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview       Soluble in water to 10 mM
Handling

Handling

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions
(FAQ) page for more details.

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