SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Nitro blue tetrazolium chloride

Cat. No.: HY-15925

CAS No.: 298-83-9

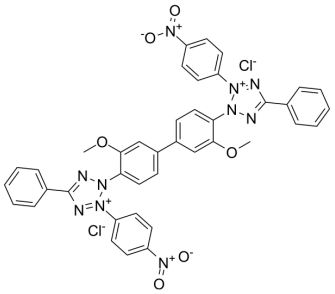
Molecular Formula: $C_{40}H_{30}Cl_2N_{10}O_6$

Molecular Weight: 818

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

70%DMF : 100 mg/mL (122.25 mM; Need ultrasonic)
H_2O : 8 mg/mL (9.78 mM; Need ultrasonic)
DMSO : 5 mg/mL (6.11 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.2225 mL	6.1125 mL	12.2249 mL
5 mM	0.2445 mL	1.2225 mL	2.4450 mL
10 mM	0.1222 mL	0.6112 mL	1.2225 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.06 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.06 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nitro blue tetrazolium chloride (NBT) is a substrate for dehydrogenases; is used with the alkaline phosphatase substrate 5-Bromo-4-Chloro-3-Indolyl Phosphate (BCIP) in western blotting and immunohistological staining procedures[1].

In Vitro

Protocol for Staining with NBT and BCIP
1.Materials
Dimethylformamide (DMF, HY-Y0345).

Nitro blue tetrazolium chloride (NBT, HY-15925) Stock Solution: Dissolve 0.5 g of NBT in 10 mL of 70% DMF in water.
BCIP Stock Solution: Dissolve 0.5 g of BCIP in 10 mL 100% DMF.
Substrate Buffer: 100 mM diethanolamine buffer (pH 9.5) containing 100 mM NaCl and 5 mM $MgCl_2$.
2.Method
2.1 To prepare the NBT/BCIP solution, add 66 µL of stock NBT to 10 mL of substrate Buffer and mix well. Add 33 µL of stock BCIP to the solution. Use the NBT/BCIP solution within 1 hour.
2.2Place blot in a suitable container and add the NBT/BCIP Solution. Use 10 mL of solution for a 15 × 15cm^2 membrane. Incubate blot at room temperature with agitation until the bands are suitably dark. Typically, ~30 minutes is required for development.
2.3 Remove the NBT/BCIP Solution and rinse blot with water to stop the reaction.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2021 Jun 21;12(1):3803.
- Cell Death Dis. 2021 May 8;12(5):462.
- J Plant Physiol. 25 August 2023, 154076

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Trinh le A, et al. Fluorescent in situ hybridization employing the conventional NBT/BCIP chromogenic stain. Biotechniques. 2007 Jun;42(6):756-9.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA