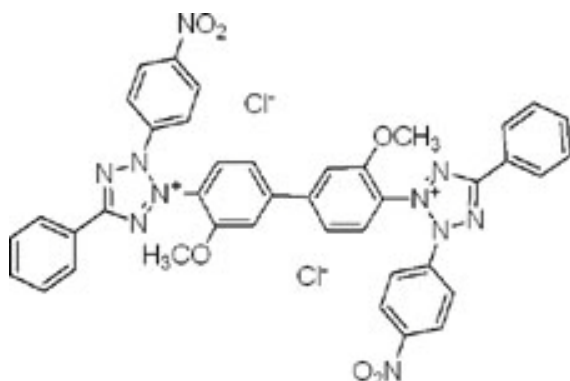




Product Information Sheet

N602 Nitro Blue Tetrazolium



Synonym: NBT; 2,2'-Di-p-nitrophenyl-5,5'-diphenyl-3,3'-(3,3'-dimethoxy-4,4'-diphenylene)-ditetrazolium Chloride; p-NBT; Nitro BT; Nitrotetrazolium blue chloride; Nitro-TB

CAS: 298-83-9

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

Molecular Wt: 817.6

Properties

Form: Powder

Appearance: Yellow

Application: Molecular Biology

Solubility: Slightly soluble in Water; More soluble in DMSO

Typical Working Concentration: Varies with application, should be determined by end user.

Storage Temp: 2 to 6°C

Storage Temp of Stock Solution: A stock solution at 10 mg/mL is stable for 1-2 weeks in the dark at 2 to 6°C.

Application Notes

Commonly used with BCIP (5-bromo-4-chloro-3-indolyl-phosphate) for colorimetric detection of alkaline phosphatase activity.

Also widely used as an indicator of superoxide production. The yellow color of NBT changes to an insoluble purple diformazan upon reaction with superoxide. According to de Maagd et al. (1993), a 0.05% NBT concentration in 10 mM sodium phosphate at a pH of 7.2 can be used to stain *Arabidopsis thaliana* Col-O seedlings for superoxide in a matter of 60 minutes.

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Product Information Sheet

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