

## BCIP, p-TOLUIDINE SALT

CAS Number: 6578-06-9

Storage Temperature: -20 °C

Product Number: B8090

### Product Description :

Appearance: White crystalline powder

Molecular formula: C<sub>8</sub>H<sub>6</sub>BrClNO<sub>4</sub>P·C<sub>7</sub>H<sub>9</sub>N

Molecular weight: 433.62

BCIP is prepared synthetically. 5-Bromo-4-chloro-3-indolyl phosphate (BCIP) and nitro blue tetrazolium (NBT) are commonly used for the colorimetric detection of alkaline phosphatase-labeled molecules. The BCIP/NBT substratesystem is versatile and functions in a variety of applications, including Northern, Southern, and Western blotting, in situ hybridization, and immunohistochemistry. BCIP p-toluidine salt is soluble in dimethylformamide. It may be used to prepare a stock solution, which in combination with NBT and a reaction buffer, form a substrate solution for alkaline phosphatase. This substrate system, when incubated with alkaline phosphatase, produces an insoluble NBT diformazan product that is easily observable with its purple color .

### Preparation Instructions:

BCIP p-toluidine salt is soluble in DMF at 1mg/ml and insoluble in water.

### Storage/Stability:

Store BCIP at -20 °C, protected from light and moisture. It remains active of three years.

A BCIP stock in DMF remains active for ~2 weeks kept in the dark at 2-8 °C, but a working solution in aqueous buffer is only good for one day.

### Precautions and Disclaimer:

This product is for R&D use only, not for drug, household, or other uses.

#### BCIP/NBT Reactions

