Creative Enzymes®

# CDP-Star Chemiluminescent Substrate

*Cat. No. CSUB-0021*

*Lot. No.* (See product label)

## Introduction

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| ***Applications*** | CDP-Star is a sensitive, chemiluminescent substrate for alkaline phosphatase that allows for the rapid, reproducible detection of alkaline phosphatase-labeled molecules in Northern, Southern, and Western blotting applications. Detection of alkaline phosphatase-labeled molecules with CDP-Star is extremely sensitive as a result of low background luminescence coupled with high intensity and prolonged light output from the enzyme catalysis. Following exposure to alkaline phosphatase-labeled molecules, maximum light emission occurs at approximately 60 minutes and continues for up to 24 hours, allowing for multiple film exposures and/or the sensitive detection of targets present in small amounts. For convenience, CDP-Star is supplied as a 0.25 mM, ready-to-use aqueous solution (i.e. no dilution is necessary). CDP-Star functions on both neutral and positively-charged nylon, giving the reagent added application versatility. |
| ***Synonyms*** | Disodium 2-chloro-5-(4-methoxyspiro[1, 2-dioxetane-3, 2'-(5-chlorotricyclo[3.3.1.13.7]decan])-4-yl]-1-phenyl phosphate |

## Product Information

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| ***CAS No.*** | 160081-62-9 |
| ***Molecular Formula*** | C18H19Cl2O7Na2P |
| ***Molecular Weight*** | 495.20 |
| ***Concentration*** | 0.25 mM in H2O |
| ***Substrates*** | Alkaline Phosphatase |

## Storage and Shipping Information

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| ***Storage*** | 2-8°C |