

## CDPI3 Succinimidyl Ester [Minor Groove Binder SE]

Catalog number: 6907 Unit size: 1 mg

## Applications

Minor Groove Binder (MGB) molecules selectively bind to the minor groove of a DNA molecule, the shallow furrow in the DNA helix. MGBlabeled oligonucleotides form stable hybrid complexes with complementary DNA and RNA target sequences. Dihydropyrroloindole tripeptide (CDPI3), the analogs of natural product CC-1065, have been shown to arrest sequence-specific primer extension on single-stranded DNA when linked to oligonucleotides. CDPI3-containing oligonucleotides increases both the specificity and the strength of hybridization, thus enhancing the stability of DNA duplexes. The addition of MGB molecules to DNA probes allows the design of shorter hybridization probes useful for molecular diagnostics, e.g., quantitative PCR based assays. Several designs are possible, including Taqman MGB probes. Compared to other commercial MGB probes, AAT Bioquest offer this MGB building block that contains a methylpiperazine moiety (derived from Hoechst 33258, another popular MGB molecule) to further enhance its DNA affinity. We offer CDPI3 succinimidyl ester for labeling amino-modified oligos.