

## Oligonucleotide Synthesis Reagents • Modified DNA

### **Summary of Modified Deoxy Amidites & Supports:**

During the last couple of decades, plethora of novel structurally modified nucleic acid analogs have been introduced<sup>1</sup> to developed probes that act as potent & selected nucleic acid based therapeutics & diagnostics<sup>2</sup>. In addition to this, these probes have also showed potential application molecular biology<sup>3</sup> &

Nanotechnology<sup>4</sup> research and development. Incorporation of modified purines and pyrimidines has been utilized to optimize DNA-protein interactions and sequence recognition for many proteins and enzymes such as repressor proteins, restriction endonucleases, modification enzymes, and promoters.<sup>5,6</sup> Applications for a variety of key modifications are described on the following pages. ChemGenes carries a wide variety of modified DNA phosphoramidites and supports and all these modifications are described under these section.