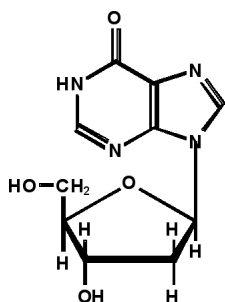


# 2'-d-Inosine Modification

## Description

2'-desoxy-Inosine (dI or "Inosine") is a special base often used as a "wild card" due to its ability to form hydrogen bonds with each standard base. Inosine is therefore often called "universal base".



## Applications

- functional genomics
- mutations analysis
- hybridization experiments

## Advantages

The design of primers is frequently complicated due to the degeneracy of the genetic code.

Two strategies are available to address this problem

- addition of a mixed base (N) to form the degenerate site. This approach is best if the number of degenerate sites is small.
- addition of 2'-d-Inosine bases. 2'-d-Inosine displays a low and unequal hydrogen bonding to all "normal" four DNA bases and can therefore be used as a "wild card".

For amplification of a degenerate template, inserting 2'-d-Inosine is one option to form the degenerate site within oligonucleotides.

## Product offering

2'-d-Inosine is available at all standard scales.

Easily order via the web:

[www.thermo.com/oligos](http://www.thermo.com/oligos)

or via email:

[sales.oligos@thermo.com](mailto:sales.oligos@thermo.com)

Please indicate the IUB-one-letter code 'I' for Inosine at the required position in the sequence.

**Application Note:  
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