

5-Methyl dCTP [10mM]

Cat. No. D1035

Storage: -20 °C



ZYMO RESEARCH

The Beauty of Science is to Make Things Simple

Product Information

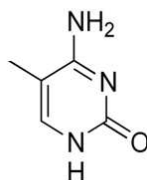
Highlights:

- High purity 5-Methyl dCTP
- Readily incorporated into PCR amplicons with *ZymoTaq™* or other DNA polymerases.
- Free of endo-, exodeoxyribonuclease, ribonuclease, phosphatase and nicking activities

Description:

5-Methyl dCTP from Zymo Research is of ultra high purity and can be used to generate DNA by PCR using *ZymoTaq™* or other DNA polymerases.

5mC



5-Methylcytosine

Applications:

PCR amplicons containing 5-methylcytosine are useful in a variety of applications such as:

- The study of 5-methylcytosine binding/interacting proteins
- Define methods that distinguish 5-methylcytosine

Concentration: 1 µmol/100 µl as a [10 mM] solution.

Storage Condition: 5-Methyl dCTP is guaranteed for 12 months at -20°C. Avoid multiple freeze/thaw cycles. For long-term storage, aliquoting is recommended with storage at -80°C.

Proposed Reaction Setup using *ZymoTaq™* (Cat. Nos. E2001 & E2002):

| Reagent | Volume | Final conc. |
|---|----------|-------------------|
| 2X Reaction Buffer | 25 µl | 1X |
| dNTP Mix (10 mM) | 5 µl | 0.25 mM each dNTP |
| Forward Primer (10 µM) | Variable | 0.3 to 1 µM |
| Reverse Primer (10 µM) | Variable | 0.3 to 1 µM |
| Template DNA | Variable | < 200 ng/50 µl |
| <i>ZymoTaq™</i> DNA Polymerase (5 U/µl) | 0.4 µl | 2 U/50 µl |
| ddH ₂ O | to 50 µl | – |
| Total volume | 50 µl | |

Note: The final concentration of MgCl₂ in the reaction (above) is 1.75 mM. If required, scale reaction reagent volumes accordingly to optimize the MgCl₂, primer, and/or template concentrations.

Also Available:

| Product Name | Size | Catalog number |
|---|-------------|----------------|
| EZ DNA Methylation™ Kit | 50 | D5001 |
| | 200 | D5002 |
| | 2 x 96 | D5003 |
| | 2 x 96 | D5004 |
| EZ DNA Methylation-Gold™ Kit | 50 | D5005 |
| | 200 | D5006 |
| | 2 x 96 | D5007 |
| | 2 x 96 | D5008 |
| EZ DNA Methylation-Direct™ Kit | 50 | D5020 |
| | 200 | D5021 |
| | 2 x 96 | D5022 |
| | 2 x 96 | D5023 |
| Universal Methylated DNA Standard | 1 set | D5010 |
| Universal Methylated Human DNA Standard | 1 set | D5011 |
| Universal Methylated Mouse DNA Standard | 1 set | D5012 |
| Bisulfite Converted Universal Methylated Human DNA Standard | 1 set | D5015 |
| <i>E. coli</i> Non-methylated Genomic DNA | 5 µg | D5016 |
| Methylated-DNA IP Kit | 10 | D5101 |
| ChIP DNA Clean & Concentrator™ | 50 | D5201 |
| | 50 | D5205 |
| Anti-5-Methylcytosine Monoclonal Antibody (clone 10G4) | 50 µg | A3001-50 |
| | 200 µg | A3001-200 |
| <i>ZymoTaq™</i> DNA Polymerase | 50 | E2001 |
| | 200 | E2002 |
| <i>ZymoTaq™</i> PreMix (2X concentrated) | 50 | E2003 |
| | 200 | E2004 |
| CpG Methylase (M.SssI) | 200 units | E2010 |
| | 400 units | E2011 |
| dsDNA Shearase™ | 50 units | E2018-50 |
| | 200 units | E2018-200 |
| EZ Nucleosomal DNA Prep Kit | 20 Preps. | D5220 |
| 5-Hydroxymethylcytosine | | |
| 5-Methylcytosine & 5-Hydroxymethylcytosine DNA Standard Set | 1 set | D5405 |
| DNA Degradase™ | 500 units | E2016 |
| | 2,000 Units | E2017 |
| DNA Degradase Plus™ | 250 units | E2020 |
| | 1,000 Units | E2021 |

Trademarks and Disclaimers:

™ Trademarks of Zymo Research Corporation.

This product is for research use only and should only be used by trained professionals. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your research institution or facility.

The Polymerase Chain Reaction (PCR) process is covered by U.S. Patent: #4,683,195; 4,683,202 assigned to Hoffmann-La Roche. Patent pending in other countries. No license under these patents to use the PCR process is conveyed expressly or by implication to the purchaser by the purchase of Zymo Research's products. Further information on purchasing licenses to practice the PCR process can be obtained from the director of Licensing at Applied Biosystems, 850 Lincoln Centre Drive, Foster City, California 94404 or at Roche Molecular Systems, Inc., 1145 Atlantic Avenue, Alameda, California 94501.

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