



Molecular Biology Kits

CATALOG
NUMBER

Cell Regulation

194802 **BREFELDIN A** 5 mg
-20°C [20350-15-6] 10 mg
 (γ ,4-Dihydroxy-2-[6-hydroxy-1-heptenyl]-4-cyclopentanecarboxylic acid λ -lactone; BFA)
Molecular Biology Reagent
 Blocks binding of the cytosolic coat protein β -COP and ARF to Golgi membranes mediated by protein G. Also blocks protein transportation into post-Golgi compartments.
Ref.: Misumi, T., et al., J. Biol. Chem., **261**, 11398 (1986).
 $C_{16}H_{24}O_4$ MW 280.4

194803 **FORSKOLIN** 10 mg
0°C [66575-29-9] 25 mg
 From *Coleus forskohlii*
 (7 β -acetoxy-8,13-epoxy-1 α ,6 β ,9 α -trihydroxy-labd-14-ene-11-one)
Molecular Biology Reagent
 Functions as an antihypertensive and vasodilator. Adenylcyclase activator.
Ref.: Huang, R., et al., J. Cyclic Nucleotide Research, **8**, 385 (1982).
 $C_{22}H_{34}O_7$ MW 410.5

194804 **PHORBOL 12-MYRISTATE 13-ACETATE** 1 mg
0°C [16561-29-8] 10 mg
 (4 α ,9 α ,12 β ,13 α ,20-Pentahydroxytigllia-1,6-dien-3-one 12 β -myristate 13-acetate; 12-O-Tetradecanoylphorbol 13 acetate; TPA)
Molecular Biology Reagent
Purity: ~99%
 Activates T-Lymphocytes.
 $C_{36}H_{56}O_8$ MW 616.8
POSSIBLE CARCINOGEN!

194805 **STAUROSPORINE** 100 μ g
0-5°C [62996-74-1] 500 μ g
 (Antibiotic AM-2282)
 From *Streptomyces sp.*
Molecular Biology Reagent
Purity: \geq 98%
 Inhibitor of phospholipid/ Ca^{2+} dependent and cyclic nucleotide dependent protein kinases. A potent protein kinase C inhibitor and useful as a tool for studies on protein phosphorylation in the regulation of cellular functions.
 $C_{28}H_{26}N_4O_3$ MW 466.5

MOLECULAR BIOLOGY KITS

DNA Purification

741010 **CLEANaprep™ DNA PURIFICATION KIT** 25 Preps
0-5°C
 The CLEANaprep™ Kit allows high yields of purified DNA from as little as 2 ml of *E. coli* culture, with yields as high as 20 μ g of purified plasmid DNA. The resulting DNA is suitable for sequencing or transformations.
 CLEANaprep™ contains no harmful or toxic reagents and does not require the use of phenol or phenol/chloroform. A complete protocol is supplied with each kit.

CATALOG
NUMBER

741010 **CLEANaprep™ DNA PURIFICATION KIT** 100
0-5°C Preps
 The CLEANaprep™ Kit allows high yields of purified DNA from as little as 2 ml of *E. coli* culture, with yields as high as 20 μ g of purified plasmid DNA. The resulting DNA is suitable for sequencing or transformations.
 CLEANaprep™ contains no harmful or toxic reagents and does not require the use of phenol or phenol/chloroform. A complete protocol is supplied with each kit.

741010 **CLEANaprep™ DNA PURIFICATION KIT** 250
0-5°C Preps
 The CLEANaprep™ Kit allows high yields of purified DNA from as little as 2 ml of *E. coli* culture, with yields as high as 20 μ g of purified plasmid DNA. The resulting DNA is suitable for sequencing or transformations.
 CLEANaprep™ contains no harmful or toxic reagents and does not require the use of phenol or phenol/chloroform. A complete protocol is supplied with each kit.

DNA Labeling Kit

834010 **DNA LABELING KIT** 1 kit
-20°C **Version 1.1**
For 10 Reactions
 The ICN DNA Labeling Kit 1.1 is designed for labeling DNA to high specific activity. It is based on the random primer method developed by Feinberg and Vogelstein-random sequence primers are annealed to denatured template DNA, and complementary strands are synthesized with the Klenow Fragment in the presence of labeled dNTP's. The kit contents include:
 •Klenow Fragment
 •Hexanucleotide Primer in 5x Reaction Buffer
 •Mix A- dGTP, dTTP, dCTP
 •Mix C- dGTP, dATP, dTTP
 •dNTP Solution- dGTP, dATP, dTTP, dCTP
 •Control Template
 •Deionized Water

834030 **DNA LABELING KIT** 1 kit
-20°C **Version 1.1**
For 30 Reactions
 The ICN DNA Labeling Kit 1.1 is designed for labeling DNA to high specific activity. It is based on the random primer method developed by Feinberg and Vogelstein-random sequence primers are annealed to denatured template DNA, and complementary strands are synthesized with the Klenow Fragment in the presence of labeled dNTP's. The kit contents include:
 •Klenow Fragment
 •Hexanucleotide Primer in 5x Reaction Buffer
 •Mix A- dGTP, dTTP, dCTP
 •Mix C- dGTP, dATP, dTTP
 •dNTP Solution- dGTP, dATP, dTTP, dCTP
 •Control Template
 •Deionized Water

Molecular Biology

Molecular Biology Kits



CATALOG
NUMBER

878010
-20°C

DNA LABELING KIT

Version 1.2

For 10 Reactions

The ICN DNA Labeling Kit 1.2 is designed for labeling DNA to high specific activity. It is based on the random primer method developed by Feinberg and Vogelstein-random sequence primers are annealed to denatured template DNA, and complementary strands are synthesized with the Klenow Fragment in the presence of labeled dNTP's. This 1.2 version kit is ideal for diverse procedures in molecular biology, such as various kinds of hybridization analyses. One or two labeled dNTP's may be used with this kit as a precursor. The kit contents include:

- Klenow Fragment
- Hexanucleotide Primer in 5x Reaction Buffer
- Mix A- dGTP, dTTP, dCTP
- Mix C- dGTP, dATP, dTTP
- dATP Solution
- dCTP Solution
- dGTP Solution
- dTTP Solution
- dNTP Mix- dATP, dCTP, dGTP, and dTTP
- Control Template
- Deionized Water

1 kit

CATALOG
NUMBER

845010
-20°C

DNA LABELING KIT

Version 2.0

For 10 Reactions

The ICN DNA Labeling Kit 2.0 is designed for rapid and convenient synthesis of labeled DNA probes with high specific activity ($>1 \times 10^9$ dpm/ μ g DNA). Klenow fragment synthesizes the complementary DNA strand from the 3'-ends of random decanucleotides in the presence of dNTP's. Any radioactive or nonradioactive labeled dNTP analogs may be used with this kit. The kit contents include:

- Klenow Fragment
- Decanucleotide Primer in 5x Reaction Buffer
- Mix A- dGTP, dTTP, dCTP
- Mix C- dGTP, dATP, dTTP
- dNTP Solution- dGTP, dATP, dTTP, dCTP
- Control Template
- Deionized Water

1 kit

878030
-20°C

DNA LABELING KIT

Version 1.2

For 30 Reactions

The ICN DNA Labeling Kit 1.2 is designed for labeling DNA to high specific activity. It is based on the random primer method developed by Feinberg and Vogelstein-random sequence primers are annealed to denatured template DNA, and complementary strands are synthesized with the Klenow Fragment in the presence of labeled dNTP's. This 1.2 version kit is ideal for diverse procedures in molecular biology, such as various kinds of hybridization analyses. One or two labeled dNTP's may be used with this kit as a precursor. The kit contents include:

- Klenow Fragment
- Hexanucleotide Primer in 5x Reaction Buffer
- Mix A- dGTP, dTTP, dCTP
- Mix C- dGTP, dATP, dTTP
- dATP Solution
- dCTP Solution
- dGTP Solution
- dTTP Solution
- dNTP Mix- dATP, dCTP, dGTP, and dTTP
- Control Template
- Deionized Water

1 kit

845030
-20°C

DNA LABELING KIT

Version 2.0

For 30 Reactions

The ICN DNA Labeling Kit 2.0 is designed for rapid and convenient synthesis of labeled DNA probes with high specific activity ($>1 \times 10^9$ dpm/ μ g DNA). Klenow fragment synthesizes the complementary DNA strand from the 3'-ends of random decanucleotides in the presence of dNTP's. Any radioactive or nonradioactive labeled dNTP analogs may be used with this kit. The kit contents include:

- Klenow Fragment
- Decanucleotide Primer in 5x Reaction Buffer
- Mix A- dGTP, dTTP, dCTP
- Mix C- dGTP, dATP, dTTP
- dNTP Solution- dGTP, dATP, dTTP, dCTP
- Control Template
- Deionized Water

1 kit

856010
-20°C

DNA 5'-END LABELING KIT

For 10 Reactions

The ICN DNA 5'-End Labeling Kit is a complete system for simple and rapid labeling of both DNA fragments and synthetic nucleotides. T4 polynucleotide kinase catalyzes the transfer of the γ -phosphate of [γ - 32 P]-ATP to the 5'-end of DNA or oligonucleotide. DNA fragments may be kinased with a radioactive phosphate by exchange reaction or may be dephosphorylated with alkaline phosphatase and end-labeled by direct reaction. The kit features optimized buffers for labeling 5'-protruding, blunt and 3'-protruding DNA ends. The kit allows for up to 10^6 - 10^7 dpm/pmol labeled ends of DNA with 32 P. The kit contents include: T4 Polynucleotide Kinase

- Calf Intestine Alkaline Phosphatase (CIAP)
- Buffer A
- Buffer B
- Buffer D
- Control DNA
- PEG 6000 Solution
- EDTA Solution
- Deionized Water

10
assays



Molecular Biology Kits

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856030 **DNA 5'-END LABELING KIT** 30/kit
-20°C **For 30 Reactions**

The ICN DNA 5'-End Labeling Kit is a complete system for simple and rapid labeling of both DNA fragments and synthetic nucleotides. T4 polynucleotide kinase catalyzes the transfer of the γ -phosphate of [γ - 32 P]-ATP to the 5'-end of DNA or oligonucleotide. DNA fragments may be kinased with a radioactive phosphate by exchange reaction or may be dephosphorylated with alkaline phosphatase and end-labeled by direct reaction. The kit features optimized buffers for labeling 5'-protruding, blunt and 3'-protruding DNA ends. The kit allows for up to 10^6 - 10^7 dpm/pmol labeled ends of DNA with 32 P. The kit contents includes: T4 Polynucleotide Kinase

- Calf Intestine Alkaline Phosphatase (CIAP)
- Buffer A
- Buffer B
- Buffer D
- Control DNA
- PEG 6000 Solution
- EDTA Solution
- Deionized Water

867010 **SYNTHETIC OLIGONUCLEOTIDE 5'-END LABELING KIT** 1 kit
-20°C **For 10 Reactions**

The ICN Synthetic Oligonucleotide 5'-End Labeling Kit is a complete system for the labeling or phosphorylation of 5'-ends of synthetic nucleotides. T4 polynucleotide kinase catalyzes the transfer of the γ -phosphate of ATP to the 5'-OH end of the oligonucleotide or DNA. Synthetic Oligonucleotides may be kinased with a radioactive phosphate and used as a labeled probe or may be phosphorylated with the nonradioactive ATP provided with the kit. A synthetic control 14-mer is also in the kit. The kit contents includes: T4 Polynucleotide Kinase

- 10X Kinase Buffer
- ATP Solution
- Control Oligonucleotide
- Deionized Water

867030 **SYNTHETIC OLIGONUCLEOTIDE 5'-END LABELING KIT** 1 kit
-20°C **For 30 Reactions**

The ICN Synthetic Oligonucleotide 5'-End Labeling Kit is a complete system for the labeling or phosphorylation of 5'-ends of synthetic nucleotides. T4 polynucleotide kinase catalyzes the transfer of the γ -phosphate of ATP to the 5'-OH end of the oligonucleotide or DNA. Synthetic Oligonucleotides may be kinased with a radioactive phosphate and used as a labeled probe or may be phosphorylated with the nonradioactive ATP provided with the kit. A synthetic control 14-mer is also in the kit. The kit contents includes: T4 Polynucleotide Kinase

- 10X Kinase Buffer
- ATP Solution
- Control Oligonucleotide
- Deionized Water

CATALOG
NUMBER

Chemiluminescent Reporter Gene Assays

3131000 **AURORA™ AP CHEMILUMINESCENT REPORTER** 200/kit
0-5°C **GENE ASSAY**

Chemiluminescent Reporter Gene Assay for Secreted Alkaline Phosphatase
Kit Size: 200 assays or 600 assays
Contents:

- Phospha-Light™ 5X Dilution Buffer
- Phospha-Light™ Reaction Buffer Diluent
- Phospha-Light™ Assay Buffer
- Starlight™ Chemiluminescent Substrate
- PAP Positive Control
- Protocol Booklet

3132000 **AURORA™ AP CHEMILUMINESCENT REPORTER** 600/kit
0-5°C **GENE ASSAY**

Chemiluminescent Reporter Gene Assay for Secreted Alkaline Phosphatase
Kit Size: 200 assays or 600 assays
Contents:

- Phospha-Light™ 5X Dilution Buffer
- Phospha-Light™ Reaction Buffer Diluent
- Phospha-Light™ Assay Buffer
- Starlight™ Chemiluminescent Substrate
- PAP Positive Control
- Protocol Booklet

3121000 **AURORA™ GAL-XE CHEMILUMINESCENT REPORTER** 200/kit
0-5°C **GENE ASSAY**

Chemiluminescent Reporter Gene Assay for β -Galactosidase
Kit Sizes: 200 assays or 600 assays.
Contents:

- Lysis Solution
- Galacto-Reaction Buffer Diluent
- Light Emission Accelerator
- Galacton™ Chemiluminescent Substrate

3122000 **AURORA™ GAL-XE CHEMILUMINESCENT REPORTER** 600/kit
0-5°C **GENE ASSAY**

Chemiluminescent Reporter Gene Assay for β -Galactosidase
Kit Sizes: 200 assays or 600 assays.
Contents:

- Lysis Solution
- Galacto-Reaction Buffer Diluent
- Light Emission Accelerator
- Galacton™ Chemiluminescent Substrate

3141000 **AURORA™ GUS CHEMILUMINESCENT REPORTER** 200/kit
0-5°C **GENE ASSAY**

For Plant Cells
 Chemiluminescent Gene Reporter Assay for β -Glucuronidase
Kit Size: 200 assays or 600 assays
Contents:

- Gus-Reaction Buffer Diluent
- Lysis Solution
- Light Emission Accelerator
- Glucuron™ Chemiluminescent Substrate
- Protocol Booklet