

PRODUCT: Sodium Butyrate (NaB)

CATALOG #:	1609-1000
AMOUNT:	1 gram
LOT #:	_____
MOLECULAR FORMULA:	C ₄ H ₇ O ₂ · Na
MOLECULAR WEIGHT:	110.1
CAS NUMBER:	156-54-7
PURITY:	≥99% by HPLC
APPEARANCE:	White solid
SOLUBILITY:	Soluble in water
STORAGE CONDITIONS:	-20°C

DESCRIPTION:

A short chain fatty acid shown to be an inhibitor of histone deacetylase (HDAC). Induce apoptosis in colon carcinoma cell lines in a p53-independent pathway. Inhibits *c-myc* splicing and interferes with signal transduction processes, including the release of Ca²⁺ from intracellular stores. Downregulates the activity of serine/threonine protease kinase casein kinase II in HT29 cells.

CAUTION: May be harmful by inhalation, in contact with skin or if swallowed.

USAGE: For research use only. Not to be used in humans.

REFERENCES: Rosso, G.L., *et al.* (1997) *BBRC* 233:673.
Krupitza, G., *et al.* (1995) *Carcinogenesis* 16: 1199.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies