



LKT Laboratories, Inc.

## n-Butyric Acid

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

**Product ID** B8275

**CAS No.** 107-92-6

**Chemical Name**

**Synonym** Butanoic acid, Butyric acid, Ethylacetic acid

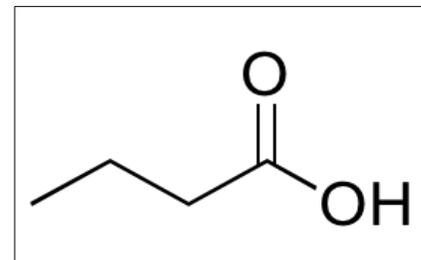
**Formula** C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>

**Formula Wt.** 88.10

**Melting Point** -7°C

**Purity** ≥98%

**Solubility** Miscible with water, alcohol  
or ether.



**Bulk quantities available upon request**

Product ID	Size
B8275	10 ml
B8275	100 ml

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Butyric acid is a fatty acid found in many dairy products that exhibits anticancer activity. Butyric acid inhibits histone deacetylases (HDACs) and induces apoptosis and G1 phase cell cycle arrest in glioma cells. Additionally, butyric acid stimulates epithelial cell proliferation at low doses and inhibits proliferation at high doses.

**References** Kim SW, Hooker JM, Otto N, et al. Whole-body pharmacokinetics of HDAC inhibitor drugs, butyric acid, valproic acid and 4-phenylbutyric acid measured with carbon-11 labeled analogs by PET. *Nucl Med Biol.* 2013 Oct;40(7):912-8. PMID: 23906667.

Inagaki A, Sakata T. Dose-dependent stimulatory and inhibitory effects of luminal and serosal n-butyric acid on epithelial cell proliferation of pig distal colonic mucosa. *J Nutr Sci Vitaminol (Tokyo).* 2005 Jun;51(3):156-60. PMID: 16161765.

Komata T, Kanzawa T, Nashimoto T, et al. Histone deacetylase inhibitors, N-butyric acid and trichostatin A, induce caspase-8- but not caspase-9-dependent apoptosis in human malignant glioma cells. *Int J Oncol.* 2005 May;26(5):1345-52. PMID: 15809727.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.