

Product Name: Sodium butyrate Revision Date: 11/04/2024

## **Product Data Sheet**

.

# Sodium butyrate

Cat. No.:	B1835 Partedon			are perfection	
CAS No.:	156-54-7		000		
Formula:	C4H7NaO2				
M.Wt:	110.09			1 C	100
Synonyms:			0	AN	la <sup>+</sup>
Target:			-0-	11	
Pathway:				0	
Storage:	Store at -20°C			E BIO	í.
Solvent &	Solubility			Anne Carcine Day	
	insoluble in DMSO;	≥4 mg/mL in H2O; ≥5.87 mg/r	mL in EtOH		
	Preparing	Mass Solvent Concentration	1mg	5mg	10mg
In vitro	Stock Solutions	1 mM	9.0835 mL	45.4174 mL	90.8348 mL
	-0	5 mM	1.8167 mL	9.0835 mL	18.1670 mL
	E the Unicourt	10 mM	0.9083 mL	4.5417 mL	9.0835 mL
Biologica	Please refer to the se	olubility information to select the	appropriate solve	nt.	

Histone deacetylase inhibitor

#### IC<sub>50</sub> & Target

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	Cell Viability Assay	character and the
	Cell Line: note the	2 adenoma-derived cell lines (AA/CI and RG/C2)
	Preparation method:	The solubility of this compound in DMSO is limited. General tips for obtaining a
In Vitro		higher concentration: Please warm the tube at 37 °C for 10 minutes and/or
		shake it in the ultrasonic bath for a while. Stock solution can be stored below -
		20 °C for several months.
	Reacting conditions:	1 ~ 4 mM; 4 days

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An R6/2 transgenic mouse model of Huntington's disease (HD)			
100, 200, 400, 600, 1200, 5000 and 10,000 mg/kg; i.p.; q.d.			
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extended survival in a dose-dependent manner, improved body weight and			
motor performance, as well as delayed the neuropathological sequelae.			
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#### **Product Citations**

1. Deng R, Zhang P, et al. "HDAC is indispensable for IFN-γ-induced B7-H1 expression in gastric cancer." Clin Epigenetics. 2018 Dec 11;10(1):153.PMID:30537988 APEXEI

See more customer validations on www.apexbt.com.

#### References

[1]. Hague A1, Manning AM, Hanlon KA, Huschtscha LI, Hart D, Paraskeva C. Sodium butyrate induces apoptosis in human colonic tumour cell lines in a p53-independent pathway: implications for the possible role of dietary fibre in the prevention of large-bowel cancer. Int J Cancer. 1993 Sep 30;55(3):498-505.

[2]. Ferrante RJ1, Kubilus JK, Lee J, Ryu H, Beesen A, Zucker B, Smith K, Kowall NW, Ratan RR, Luthi-Carter R, Hersch SM. Histone deacetylase inhibition by sodium butyrate chemotherapy ameliorates the neurodegenerative phenotype in Huntington's disease mice. J Neurosci. 2003 Oct 15;23(28):9418-27.



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#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage 2 www.apexbt.com

temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.





### APExBIO Technology

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