Phone: 888-558-5227

651-644-8424

888-558-7329 Fax: Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID P2815 CAS No. 1716-12-7

Chemical Name Benzenebutanoic acid, sodium salt

Synonym Buphenyl, Sodium 4-phenylbutyrate, Tributyrate

Formula C₁₀H₁₁O₂Na Formula Wt. 186.18 Melting Point 214-220°C Purity ≥98%

Solubility Soluble in water, ethanol,

DMSO.

Na⁺

Bulk quanitites available upon request

Product ID	Size
P2815	1 g
P2815	5 g
P2815	25 g

Store Temp Ambient Ship Temp Ambient

Description Phenylbutyrate is an inhibitor of histone deacetylase (HDAC) that exhibits neuroprotective and anticancer chemotherapeutic

activities. In cellular and animal models of pancreatic cancer, phenylbutyrate inhibits cellular proliferation and tumor growth. This compound is clinically used to treat urea cycle disorders, as it allows excretion of excess nitrogen waste. In animal models of Alzheimer's disease, phenylbutyrate prevents neuronal loss and normalizes brain pathology.

References Cuadrado-Tejedor M, Ricobaraza AL, Torrijo R, et al. Phenylbutyrate is a multifaceted drug that exerts neuroprotective effects and reverses the Alzheimer's disease-like phenotype of a commonly used mouse model. Curr Pharm Des. 2013;19(28):5076-84. PMID: 23448463.

> Dovzhanskiy DI, Hartwig W, Lázár NG, et al. Growth inhibition of pancreatic cancer by experimental treatment with 4phenylbutyrate is associated with increased expression of Connexin 43. Oncol Res. 2012;20(2-3):103-11. PMID: 23193916.

Iannitti T, Palmieri B. Clinical and experimental applications of sodium phenylbutyrate. Drugs R D. 2011 Sep 1;11(3):227-49. PMID: 21902286.

Batshaw ML, MacArthur RB, Tuchman M. Alternative pathway therapy for urea cycle disorders: twenty years later. J Pediatr. 2001 Jan;138(1 Suppl):S46-54; Erratum in: J Pediatr 2002 Apr;140(4):490. PMID: 11148549.

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