



LKT Laboratories, Inc.

3-*tert*-Butyl-4-Hydroxyanisole

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Product Information

Product ID B8071

CAS No. 121-00-6

Chemical Name 3-(1,1-Di-methylethyl)4-methoxyphenol

Synonym 3-BHA

Formula $C_{11}H_{16}O_2$

Formula Wt. 180.25

Melting Point 69-71 °C

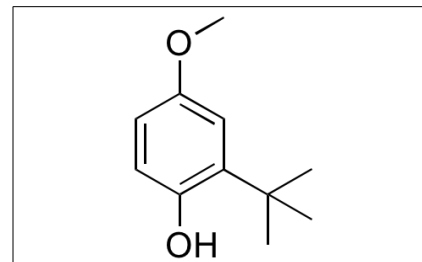
Purity ≥99%

Solubility Insoluble in water. Soluble
in ethanol, acetone, DMSO.

Store Temp Ambient

Ship Temp Ambient

Description 3-Tert-butyl-4-hydroxyanisole (3-BHA) is one component of butylated hydroxyanisole (BHA). This compound is commonly used as a food additive; it exhibits antioxidative and anticancer activities. In leukemia cells, 3-BHA decreases the mitochondrial membrane potential, inhibits mitochondrial oxidative phosphorylation, induces apoptosis and DNA damage, and suppresses cellular proliferation. In animal models, 3-BHA induces phase II enzymes, increasing expression of quinone reductase and glutathione-S-transferase. Some studies suggest that 3-BHA may also be mutagenic.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
B8071	5 g	\$121.00
B8071	10 g	\$217.20
B8071	50 g	\$703.60

References Hwang GH, Jeon YJ, Han HJ, et al. Protective effect of butylated hydroxyanisole against hydrogen peroxide-induced apoptosis in primary cultured mouse hepatocytes. J Vet Sci. 2014 Oct 8. [Epub ahead of print]. PMID: 25293491.

Okubo T, Yokoyama Y, Kano K, et al. Molecular mechanism of cell death induced by the antioxidant tert-butylhydroxyanisole in human monocytic leukemia U937 cells. Biol Pharm Bull. 2004 Mar;27(3):295-302. PMID: 14993791.

Prochaska HJ, Fernandes CL. Elevation of serum phase II enzymes by anticarcinogenic enzyme inducers: markers for a chemoprotected state? Carcinogenesis. 1993 Dec;14(12):2441-5. PMID: 8269610.

Matsuoka A, Matsui M, Miyata N, et al. Mutagenicity of 3-tert-butyl-4-hydroxyanisole (BHA) and its metabolites in short-term tests in vitro. Mutat Res. 1990 Jun;241(2):125-32. PMID: 2345551.

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