



LKT Laboratories, Inc.

Terbutaline Sulfate

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Product Information

Product ID T1674

CAS No. 23031-32-5

Chemical Name 5-[2-(tert-butylamino)-1-hydroxyethyl]benzene-1,3-diol

Synonym

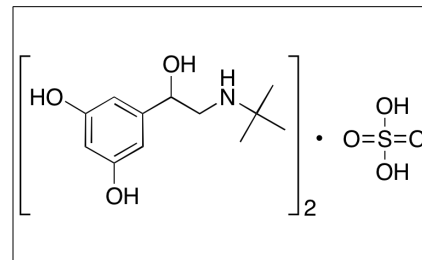
Formula $C_{24}H_{38}N_2O_6 \cdot H_2SO_4$

Formula Wt. 548.65

Melting Point 246-248°C (dec)

Purity ≥98%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T1674	1 g	\$72.30
T1674	5 g	\$299.70

Store Temp Ambient

Ship Temp Ambient

Description Terbutaline is an agonist at β_2 -adrenergic receptors and is clinically used to treat asthma and cough. Terbutaline exhibits anti-tussive, anti-asthma, anti-allergic, tocolytic, and bronchodilatory activities. In vivo, terbutaline inhibits the production of TNF- α , improving pain/allodynia symptoms. In other animal models, terbutaline inhibits the cough response via modulation of cAMP and PKG signaling. Terbutaline also inhibits expression of corticotropin-releasing hormone in trophoblasts. In alveolar epithelial cells, this compound stimulates activity and increases expression of epithelial Na⁺ channels (ENaCs).

References Bohren Y, Tessier LH, Megat S, et al. Antidepressants suppress neuropathic pain by a peripheral β_2 -adrenoceptor mediated anti-TNF α mechanism. *Neurobiol Dis.* 2013 Dec;60:39-50. PMID: 23978467.

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Kontopoulos EV, Chandras C, Karalis K. Terbutaline inhibits corticotropin-releasing hormone (CRH) expression in human trophoblast cells. *J Matern Fetal Neonatal Med.* 2006 Nov;19(11):735-9. PMID: 17127497.

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Lui PW, Hsing CH, Chu YC. Terbutaline inhalation suppresses fentanyl-induced coughing. *Can J Anaesth.* 1996 Dec;43(12):1216-9. PMID: 8955969.

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