



LKT Laboratories, Inc.

## Pentoxifylline

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** P1755

**CAS No.** 6493-05-6

**Chemical Name** 3,7-Dihydro-3,7-dimethyl-1-(5-oxohexyl)-1H-purine- 2,6-dione

**Synonym** Azupentat, Durapental, Oxpentifylline, Rentylin, Torental, Trental, Vazofirin

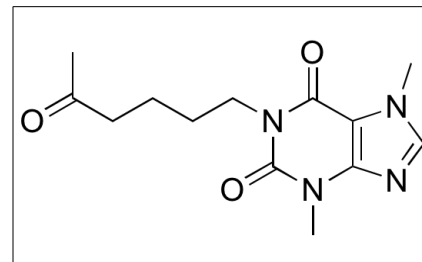
**Formula** C<sub>13</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub>

**Formula Wt.** 278.31

**Melting Point** 105°C

**Purity** ≥98%

**Solubility** Soluble in water and benzene.



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
P1755	10 g	\$71.50
P1755	50 g	\$153.10
P1755	100 g	\$204.30

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Pentoxifylline is a xanthine derivative that exhibits anti-inflammatory, cardioprotective, antithrombotic, analgesic, and anti-fibrotic activities. Pentoxifylline is clinically used to treat intermittent claudication, peripheral vascular disease, and neuropathies. Pentoxifylline is a non-selective inhibitor of phosphodiesterases (PDEs) that increases cAMP levels and activates PKA; it also inhibits adenosine A2 receptors. In vitro, pentoxifylline decreases phosphorylation of IκBα and suppresses activity of NFκB. This compound also inhibits inflammation-induced hyperalgesia and separately, suppresses fibrin-induced epithelial-to-mesenchymal transition (EMT) and the development of fibrosis in animal models.

**References** Fang CC, Huang JW, Shyu RS, et al. Fibrin-Induced epithelial-to-mesenchymal transition of peritoneal mesothelial cells as a mechanism of peritoneal fibrosis: effects of pentoxifylline. PLoS One. 2012;7(9):e44765. PMID: 23028611

Nowak Ł, Zurowski D, Dobrogowski J, et al. Pentoxifylline modifies central and peripheral vagal mechanism in acute and chronic pain models. Folia Med Cracov. 2012;52(1-2):83-95. PMID: 23697217

Deree J, Martins JO, Melbostad H, et al. Insights into the regulation of TNF-alpha production in human mononuclear cells: the effects of non-specific phosphodiesterase inhibition. Clinics (Sao Paulo). 2008 Jun;63(3):321-8. PMID: 18568240.

Marques LJ, Zheng L, Poulakis N, et al. Pentoxifylline inhibits TNF-alpha production from human alveolar macrophages. Am J Respir Crit Care Med. 1999 Feb;159(2):508-11. PMID: 9927365.

Ward A, Clissold SP. Pentoxifylline. A review of its pharmacodynamic and pharmacokinetic properties, and its therapeutic efficacy. Drugs. 1987 Jul;34(1):50-97. PMID: 3308412.

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