



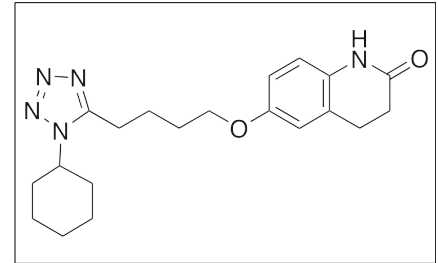
LKT Laboratories, Inc.

## Cilostazol

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### Product Information

**Product ID** C3246  
**CAS No.** 73963-72-1  
**Chemical Name** 6-[4-(1-Cyclohexyl-1H-tetrazol-5-yl)-butoxy]-3,4-dihydro-2(1H)-quinolinone  
**Synonym** OPC-13013, Pletal



**Formula** C<sub>20</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>  
**Formula Wt.** 369.46  
**Melting Point** 159.4-160.3 °C  
**Purity** ≥98%  
**Solubility** Soluble in acetic acid, chloroform, and DMSO. Practically insoluble in water and ether.

**Store Temp** Ambient  
**Ship Temp** Ambient

**Description** Cilostazol is a quinolone inhibitor of phosphodiesterase 3B (PDE 3B) that exhibits vasodilatory, antiplatelet, anti-inflammatory, anti-diabetic, antidepressant, anxiolytic, and pro-angiogenic activities. Cilostazol is clinically used to treat intermittent claudication associated with peripheral vascular disease. Cilostazol decreases production of TNF-α in macrophages and inhibits TNF-α-induced inflammation in adipose tissue, improving glucose tolerance and insulin resistance in vivo. Additionally, cilostazol decreases immobility time in the forced swim test and burying activity in the marble burying test. In other animal models, this compound upregulates production of G-CSF and VEGF, inducing angiogenesis.

**Bulk quantities available upon request**

Product ID	Size
C3246	50 mg
C3246	100 mg
C3246	500 mg

**References** Biscetti F, Pecorini G, Straface G, et al. Cilostazol promotes angiogenesis after peripheral ischemia through a VEGF-dependent mechanism. *Int J Cardiol.* 2013 Aug 10;167(3):910-6. PMID: 22473072.

Wada T, Onogi Y, Kimura Y, et al. Cilostazol ameliorates systemic insulin resistance in diabetic db/db mice by suppressing chronic inflammation in adipose tissue via modulation of both adipocyte and macrophage functions. *Eur J Pharmacol.* 2013 May 5;707(1-3):120-9. PMID: 23528355.

Patel DS, Anand IS, Bhatt PA. Evaluation of antidepressant and anxiolytic activity of phosphodiesterase 3 inhibitor - cilostazol. *Indian J Psychol Med.* 2012 Apr;34(2):124-8. PMID: 23162186.

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