



LKT Laboratories, Inc.

Polydatin

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## Product Information

**Product ID** P5845

**CAS No.** 65914-17-2

**Chemical Name** 3-Hydroxy-5-(2-(4-hydroxyphenyl)ethenyl)phenyl-beta-D-glucoside

**Synonym** Resveratrol 3-β-mono-D-glucoside

**Formula** C<sub>20</sub>H<sub>22</sub>O<sub>8</sub>

**Formula Wt.** 390.38

**Melting Point** 223-226 °C

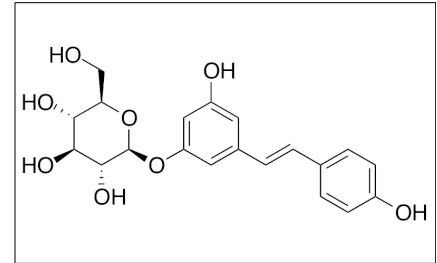
**Purity** ≥97%

**Solubility** Soluble in methanol, ethanol acetone, hot water or ethyl acetate.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Polydatin is a resveratrol-related glucoside originally found in *Polygonum cuspidatum*. Polydatin exhibits anticancer, anti-inflammatory, antioxidative, and anti-allergic activities. In lung cancer cells, polydatin downregulates expression of cyclin D1 and Bcl-2 and upregulates expression of Bax, inducing cell cycle arrest and apoptosis. In animal models of sepsis, polydatin decreases sepsis-induced mortality and lung injury by suppressing production of COX-2, iNOS, and inflammatory cytokines. Polydatin also decreases the loss of mucosal barrier integrity in the small intestine due to OVA-induced allergy by inhibiting mast cell degranulation.



**Bulk quantities available upon request**

Product ID	Size
P5845	250 mg
P5845	1 g
P5845	5 g

**References** Zhang Y, Zhuang Z, Meng Q, et al. Polydatin inhibits growth of lung cancer cells by inducing apoptosis and causing cell cycle arrest. *Oncol Lett.* 2014 Jan;7(1):295-301. PMID: 24348867.

Yang B, Li JJ, Cao JJ, et al. Polydatin attenuated food allergy via store-operated calcium channels in mast cell. *World J Gastroenterol.* 2013 Jul 7;19(25):3980-9. PMID: 23840142.

Li XH, Gong X, Zhang L, et al. Protective effects of polydatin on septic lung injury in mice via upregulation of HO-1. *Mediators Inflamm.* 2013;2013:354087. PMID: 23431240.

Wu MJ, Gong X, Jiang R, et al. Polydatin protects against lipopolysaccharide-induced fulminant hepatic failure in D-galactosamine-sensitized mice. *Int J Immunopathol Pharmacol.* 2012 Oct-Dec;25(4):923-34. PMID: 23298483.

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