



LKT Laboratories, Inc.

Astilbin

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Product Information

Product ID A7577

CAS No. 29838-67-3

Chemical Name 5,7,3',4'-tetrahydroxy-2,3-dihydroflavonol-3-β-o-rhamnoside

Synonym Astibin

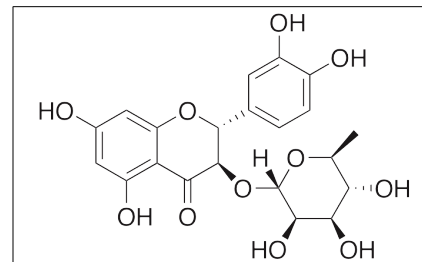
Formula C₂₁H₂₂O₁₁

Formula Wt. 450.39

Melting Point

Purity ≥99%

Solubility



Bulk quantities available upon request

Product ID	Size
A7577	5 mg
A7577	10 mg
A7577	25 mg

Store Temp Ambient

Ship Temp Ambient

Description Astilbin is a flavonoid found in several plants, including species of *Engelhardia* and *Smilax*. Astilbin displays anticancer, antioxidative, anti-inflammatory, and immunosuppressive activities. In vitro, astilbin inhibits expression of IL-1β, IL-6, IL-10, MCP-1, and TNF-α, as well as activity of horseradish peroxidase and myeloperoxidase. This compound also inhibits maturation of and antigen presentation by dendritic cells and activation and proliferation of T cells. Astilbin downregulates NF-κB and c-Myc and induces cell cycle arrest and caspase-mediated apoptosis in hepatoma cells. Additionally, astilbin also inhibits release of prostaglandin E2.

References Li P, Gao S, Jie W, et al. Astilbin inhibits proliferation of rat aortic smooth muscle cells induced by angiotensin II and down-regulates expression of protooncogene. J Huazhong Univ Sci Technolog Med Sci. 2012 Apr;32(2):181-5. PMID: 22528217.

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Petacci F, Freitas SS, Brunetti IL, et al. Inhibition of peroxidase activity and scavenging of reactive oxygen species by astilbin isolated from *Dimorphandra mollis* (Fabaceae, Caesalpinioideae). Biol Res. 2010;43(1):63-74. PMID: 21157633.

Zou S, Shen X, Tang Y, et al. Astilbin suppresses acute heart allograft rejection by inhibiting maturation and function of dendritic cells in mice. Transplant Proc. 2010 Nov;42(9):3798-802. PMID: 21094859.

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Sa F, Gao JL, Fung KP, et al. Anti-proliferative and pro-apoptotic effect of *Smilax glabra* Roxb. extract on hepatoma cell lines. Chem Biol Interact. 2008 Jan 10;171(1):1-14. PMID: 17996228.

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