



LKT Laboratories, Inc.

## Arbutin

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### Product Information

**Product ID** A6804

**CAS No.** 497-76-7

**Chemical Name** 4-Hydroxyphenyl-B-D-glucopyranoside

**Synonym** Hydroquinone glucose, Arbutoside, Ursin

**Formula** C<sub>12</sub>H<sub>16</sub>O<sub>7</sub>

**Formula Wt.** 272.25

**Melting Point** 199-200°C

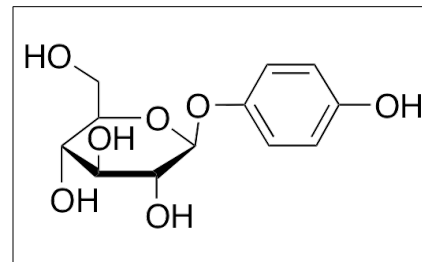
**Purity** ≥98%

**Solubility** Soluble in water  
(55mg/mL), DMSO  
(55mg/mL) and alcohol.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Arbutin is a glycoside hydroquinone originally found in *Bergenia* and *Arctostaphylos* that inhibits tyrosinase. Arbutin decreases melanin production and is commercially used in skin-lightening products. Arbutin also inhibits phospholipase A2 (PLA2).



**Bulk quantities available upon request**

Product ID	Size
A6804	5 g
A6804	10 g
A6804	25 g

**References** Inoue Y, Hasegawa S, Yamada T, et al. Analysis of the effects of hydroquinone and arbutin on the differentiation of melanocytes. *Biol Pharm Bull.* 2013;36(11):1722-30. PMID: 24189417.

Lim YJ, Lee EH, Kang TH, et al. Inhibitory effects of arbutin on melanin biosynthesis of alpha-melanocyte stimulating hormone-induced hyperpigmentation in cultured brownish guinea pig skin tissues. *Arch Pharm Res.* 2009 Mar;32(3):367-73. PMID: 19387580.

Oliver AE, Crowe LM, de Araujo PS, et al. Arbutin inhibits PLA2 in partially hydrated model systems. *Biochim Biophys Acta.* 1996 Jul 12;1302(1):69-78. PMID: 8695657.

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