



LKT Laboratories, Inc.

## Ecdysterone

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### Product Information

**Product ID** E0813

**CAS No.** 5289-74-7

**Chemical Name** (2B,3B,5B,22R)-2,3,14,20,22,25-Hexahydroxycholest-7-en-6-one

**Synonym** 20-Hydroxyecdysone, Crustecdysone, Isoinokosterone, Polypodine A

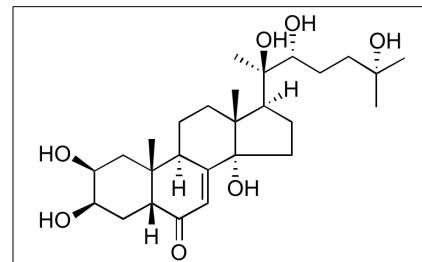
**Formula** C<sub>27</sub>H<sub>44</sub>O<sub>7</sub>

**Formula Wt.** 480.64

**Melting Point** 242-244°C

**Purity** ≥96%

**Solubility** Soluble in alcohol.



**Bulk quantities available upon request**

Product ID	Size
E0813	5 mg
E0813	10 mg
E0813	25 mg

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Ecdysterone is a steroid hormone initially produced by arthropods that controls ecdysis and metamorphosis. Ecdysterone binds the ecdysone receptor. This compound induces autophagy and caspase activity during larval-prepupal transition periods in *Drosophila*. In mammals, ecdysterone may exhibit anabolic activity, decreasing chronic fatigue of nerves and muscles. Ecdysterone may also exhibit pro-angiogenic activity, increasing microvessel density and enhancing angiogenesis in models of cerebral ischemia.

**References** Liu H, Jia Q, Tettamanti G, et al. Balancing crosstalk between 20-hydroxyecdysone-induced autophagy and caspase activity in the fat body during *Drosophila* larval-prepupal transition. *Insect Biochem Mol Biol.* 2013 Nov;43(11):1068-78. PMID: 24036278.

Volodin VV, Sidorova IuS, Mazo VK. 20-Hydroxyecdysone--plant adaptogen: an anabolic effect, possible use in sports nutrition. *Vopr Pitan.* 2013;82(6):24-30. PMID: 24741953.

Luo C, Yi B, Fan W, et al. Enhanced angiogenesis and astrocyte activation by ecdysterone treatment in a focal cerebral ischemia rat model. *Acta Neurochir Suppl.* 2011;110(Pt 1):151-5. PMID: 21116931.

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