



LKT Laboratories, Inc.

## Biochanin A

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### Product Information

Product ID B3358

CAS No. 491-80-5

#### Chemical Name

Synonym 4'-Methylgenistein, Biochanin

Formula  $C_{16}H_{12}O_5$

Formula Wt. 284.27

Melting Point 210-213 °C

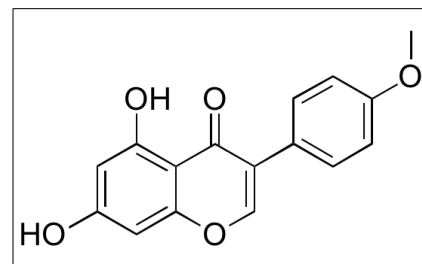
Purity ≥98%

Solubility Soluble in acetone,  
chloroform, methanol,  
DMSO (55 mg/mL), ethanol  
(9 mg/mL).

Store Temp 4 °C

Ship Temp Ambient

**Description** Biochanin A is an isoflavone/flavonoid found in plants in the *Fabaceae* family, such as clover, soy, and alfalfa. Biochanin A exhibits anticancer, anti-metastatic, estrogenic, neuroprotective, anti-osteoporotic, antiviral, and anti-inflammatory activities. Biochanin A may activate PPAR $\alpha$  and PPAR $\gamma$ . In pancreatic cancer cells, biochanin A inhibits cellular proliferation, migration, and invasion, and suppresses activation of Akt and MAPKs. In other cellular models, biochanin A acts as a phytoestrogen and increases expression of ER $\beta$ . Biochanin A also improves cognitive deficits in animal models of Alzheimer's disease. In stem cells, this compound inhibits adipocyte differentiation and increases osteoblast differentiation. Additionally, biochanin A inhibits replication of influenza virus and suppresses production of IL-6, IL-8, IL-10, and TNF- $\alpha$  in vitro.



**Bulk quantities available upon request**

| Product ID | Size   |
|------------|--------|
| B3358      | 100 mg |
| B3358      | 250 mg |
| B3358      | 1 g    |

**References** Wang L, Waltenberger B, Pferschy-Wenzig EM, et al. Natural product agonists of peroxisome proliferator-activated receptor gamma (PPAR $\gamma$ ): a review. *Biochem Pharmacol.* 2014 Jul 30. [Epub ahead of print]. PMID: 25083916.

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