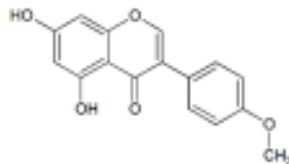


# Biochanin A

**ALTERNATE NAME:** 5,7-Dihydroxy-4'-methoxyisoflavone  
4'-Methylgenistein  
Olmelin

**CATALOG #:** B2794-50 50 mg  
B2794-250 250 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>16</sub>H<sub>12</sub>O<sub>5</sub>

**MOLECULAR WEIGHT:** 284.27

**CAS NUMBER:** 491-80-5

**APPEARANCE:** Light yellow to orange powder

**PURITY:** ≥98% by HPLC

**SOLUBILITY:** >50 mg/ml DMSO

**DESCRIPTION:** Biochanin A is an isoflavone phytoestrogen found in red clover that acts as a selective agonist at ER-β estrogen receptors, and may have chemopreventive efficacy against breast cancer. Biochanin A is also a ligand for the aryl hydrocarbon receptor (AhR). It reduces arterial resistance and enhances microcirculation perhaps via effects on potassium and/or calcium ion channels. Induction of sulfotransferases for xenobiotic detoxification has been proposed as a mechanism of its cancer preventive effects. Also acts as a fatty acid amide hydrolase (FAAH) inhibitor, which inhibits FAAH with IC<sub>50</sub>s of 1.8, 1.4 and 2.4 μM for mouse, rat, and human FAAH, respectively.

**STORAGE TEMPERATURE:** -20°C. Protect from light

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

FAAH Inhibitor, PF-622 (1928)  
JNJ-1661010 (2413)  
URB597 (B2613)  
JZL195 (B1064)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*