**Gymnestrogenin**

Cat. No.: HY-N2273  
CAS No.: 19942-02-0  
Molecular Formula: C$_{30}$H$_{50}$O$_{5}$  
Molecular Weight: 490.72  
Target: LXR  
Pathway: Metabolic Enzyme/Protease  
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

**Description**  
Gymnestrogenin is a pentahydroxytriterpene from the leaves of Gymnema sylvestre R.Br$^{[1]}$. Gymnestrogenin is a LXR antagonist with IC$_{50}$s of 2.5 and 1.4 μM for LXR$\alpha$ and LXR$\beta$ transactivation, respectively. Gymnestrogenin reduces the transcriptional activity of LXR even on its own promoter, thus reducing the mRNA expression$^{[2]}$.

<table>
<thead>
<tr>
<th>IC$_{50}$ &amp; Target</th>
<th>IC50: 2.5 μM (LXR$\alpha$) and 1.4 μM (LXR$\beta$)$^{[2]}$</th>
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</table>

**In Vitro**  
Gymnestrogenin, reducing the expression of SREBP1c and ABCA1 in vitro, is able to decrease lipid accumulation in HepG2 cells$^{[2]}$.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES


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Caution: Product has not been fully validated for medical applications. For research use only.

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