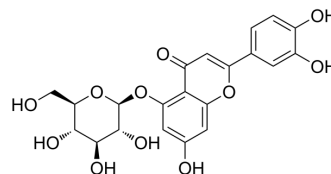


## Luteolin 5-O-glucoside

Cat. No.:	HY-N2008
CAS No.:	20344-46-1
Molecular Formula:	C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>
Molecular Weight:	448.38
Target:	Reactive Oxygen Species; NO Synthase
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Luteolin 5-O-glucoside, a major flavonoid from <i>Cirsium maackii</i> , possesses anti-inflammatory activity. Luteolin 5-O-glucoside inhibits LPS-induced NO production and t-BHP-induced ROS generation. Luteolin 5-O-glucoside suppresses the expression of iNOS and COX-2 in macrophages <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	iNOS
<b>In Vitro</b>	Luteolin 5-O-glucoside, at a non-toxic concentration, inhibits LPS-induced NO production and t-BHP-induced ROS generation in a dose-dependent manner in RAW 264.7 cells. Luteolin 5-O-glucoside also suppresses the expression of iNOS and COX-2 in LPS-stimulated macrophages <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Anti-inflammatory activity of Korean thistle *Cirsium maackii* and its major flavonoid, luteolin 5-O-glucoside. *Food Chem Toxicol.* 2012 Jun;50(6):2171-9.

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

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