



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

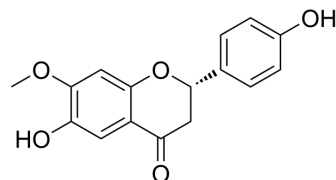
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

6,4'-Dihydroxy-7-methoxyflavanone

Cat. No.:	HY-N9736
CAS No.:	189689-32-5
Molecular Formula:	C ₁₆ H ₁₄ O ₅
Molecular Weight:	286.28
Target:	Calcineurin
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	6,4'-Dihydroxy-7-methoxyflavanone, a flavonoid, is a nature product that could be isolated from Heartwood Dalbergia odorifera. 6,4'-Dihydroxy-7-methoxyflavanone inhibits receptor activators of nuclear factor kappa-B ligand (RANKL) induced osteoclastogenesis. 6,4'-Dihydroxy-7-methoxyflavanone has antioxidant, anti-inflammatory and neuroprotective effects. 6,4'-Dihydroxy-7-methoxyflavanone can be used in research of osteoporosis ^[1] .								
In Vitro	<p>6,4'-Dihydroxy-7-methoxyflavanone (3-30 μM; macrophages) inhibits osteoclastogenesis and TRAP activity in a dose-dependent manner^[1].</p> <p>6,4'-Dihydroxy-7-methoxyflavanone (0-30 μM; 48 h) disrupts actin ring formation of mature osteoclasts^[1].</p> <p>6,4'-Dihydroxy-7-methoxyflavanone (0-30 μM; 1 h; macrophages) inhibits RANKL-induced expression of nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 (NFATc1) and c-Fos via inhibition of mitogen activated protein kinases (MAPKs) pathway^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>Macrophages</td> </tr> <tr> <td>Concentration:</td> <td>0, 1, 3, 10, and 30 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited RANKL-induced phosphorylation of JNK without decrease of the phosphorylation of ERK and p38 MAPK.</td> </tr> </table>	Cell Line:	Macrophages	Concentration:	0, 1, 3, 10, and 30 μM	Incubation Time:	1 hours	Result:	Inhibited RANKL-induced phosphorylation of JNK without decrease of the phosphorylation of ERK and p38 MAPK.
Cell Line:	Macrophages								
Concentration:	0, 1, 3, 10, and 30 μM								
Incubation Time:	1 hours								
Result:	Inhibited RANKL-induced phosphorylation of JNK without decrease of the phosphorylation of ERK and p38 MAPK.								

REFERENCES

[1]. Im NK, et, al. 6,4'-Dihydroxy-7-methoxyflavanone inhibits osteoclast differentiation and function. Biol Pharm Bull. 2013;36(5):796-801.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA