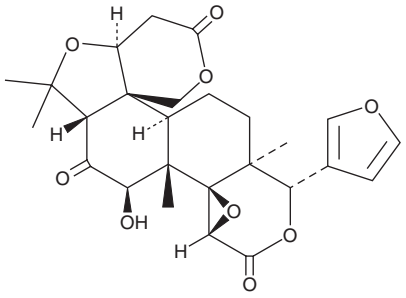
# PRODUCT INFORMATION

## Rutaevin

*Item No. 46079*

**CAS Registry No.:** 33237-37-5
**Formal Name:** (4aS,6aS,8R,8aS,8bR,9aS,12S,12aS,14aR,14bR)-12-(3-furanyl)octahydro-8-hydroxy-6,6,8a,12a-tetramethyl-1H,3H,6H,8H-oxireno[c]pyrano[4′′,3′′:2′,3′]furo[3′,4′:5,6]naphtho[1,2-d]pyran-3,7,10(6aH,9aH)-trione
**MF:** $C_{26}H_{30}O_9$
**FW:** 486.5
**Purity:** ≥98%
**Supplied as:** A solid
**Storage:** -20°C
**Stability:** ≥4 years
**Item Origin:** Plant/*Cortex Dictamni*



*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Rutaevin is supplied as a solid. A stock solution may be made by dissolving the rutaevin in the solvent of choice, which should be purged with an inert gas. Rutaevin is slightly soluble (0.1-1 mg/ml) in DMSO.

### Description

Rutaevin is a limonoid that has been found in *L. olgensis* and has diverse biological activities[1-3] It acts as a phytoalexin in *L. olgensis*, where it accumulates in the shoots of trees resistant to larch shoot blight following exposure to the plant pathogenic fungus *N. laricinum*.[3] It also reduces LPS-induced increases in nitric oxide (NO) production in RAW 264.7 macrophages ($IC_{50}$ = 151.6 µM) and reduces glutamate-induced neurotoxicity in primary rat cortical cells ($EC_{50}$ = 3.1 µM).[1,2]

### References


1. Yang, X.B., Qian, P., Yang, X.W., *et al.* Limonoid constituents of Euodia rutaecarpa var. bodinieri and their inhibition on NO production in lipopolysaccharide-activated RAW264.7 macrophages. *J. Asian Nat. Prod. Res.* **15(10)**, 1130-1138 (2013).
2. Yoon, J.S., Sung, S.H., and Kim, Y.C. Neuroprotective limonoids of root bark of *Dictamnus dasycarpus*. *J. Nat. Prod.* **7(2)**, 208-211 (2008).
3. Zhang, R., Zhang, S., Xia, R., *et al.* From resistance mechanism to green application: Discovery of rutaevin as a key phytoalexin in larch and cross-species resource optimization. *Plants (Basel)* **14(19)**, 2947 (2025).



**WARNING**
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

**SAFETY DATA**
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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