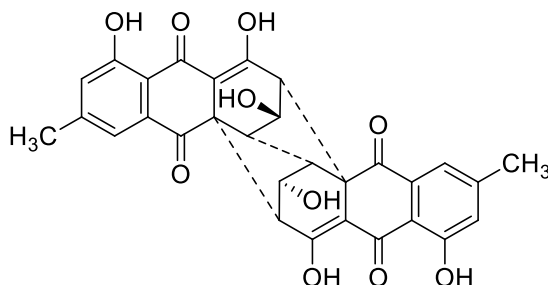


## (-)-Rugulosin

Code No.: **BIA-R1452**

Pack sizes: **1 mg, 5 mg**



Synonyms : Radicalisin

## Specifications

CAS #	: <b>21884-45-7</b>
Molecular Formula	: <b>C<sub>30</sub>H<sub>22</sub>O<sub>10</sub></b>
Molecular Weight	: <b>542.5</b>
Source	: <b><i>Penicillium</i> sp.</b>
Appearance	: <b>Yellow brown solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</b>

## Application Notes

(-)-Rugulosin is the less common optical isomer of the mycotoxin, (+)-rugulosin, which was first isolated from *Myrothecium verrucaria* in 1968. The isomers appear not to be co-produced but both occur widely in several fungal genera. (-)-Rugulosin has been shown to be antiviral. (-)-Rugulosin is the less studied of the isomers and its role as a mycotoxin is implied rather than established. There are few comparative studies of the relative potency of the isomers.

## References

1. Fungal metabolites. XXXII. Renewed investigation on (-)-flavoskyrin and its analogs Takeda N. et al., *Tetrahedron* 1973, 29, 3703.
2. Further studies on the structures of luteoskyrin, rubroskyrin and rugulosin. Sankawa U. et al., *Tet. Lett.* 1968, 53, 5557.
3. Inhibition of phage growth by an antibiotic rugulosin isolated from *Myrothecium verucaria*. I. Properties of the anti-phage effect. Nakamura S. et al., *Jpn. J. Microbiol.* 1971, 5, 113.
4. Rugulosin, a crystalline colouring matter of *Penicillium rugulosum* Thom. Breen J. et al., *Biochem. J.* 1955, 60, 618. 2. Effect of a rugulosin-producing endophyte in *Picea glauca* on *Choristoneura fumiferana*. Miller J.D. et al., *J. Chem. Ecol.* 2008, 34, 362. 3. Cytotoxicity against insect cells of entomopathogenic fungi of the genera *Hypocrella* (anamorph *Aschersonia*): possible agents for biological control. Watts P. et al., *Mycological Research* 2003, 107, 581.