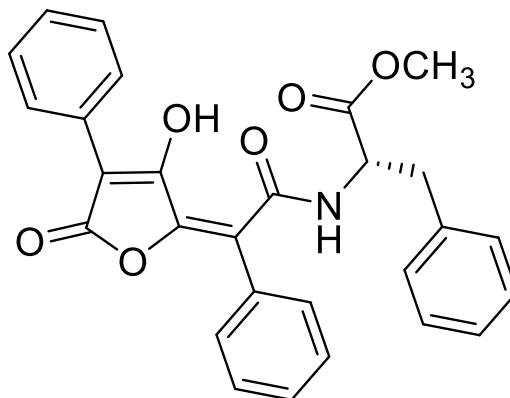


Rhizocarpic acid

Code No.: **BIA-R2992**

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



Synonyms : -

Specifications

CAS #	: 18463-11-1
Molecular Formula	: C ₂₈ H ₂₃ NO ₆
Molecular Weight	: 469.5
Source	: <i>Lecanora epanora</i>
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol and DMSO.

Application Notes

Rhizocarpic acid is a yellow crystalline pigment, first isolated by Knop from several lichens, notably *Rhizocarpon geographicum*, in 1844. Rhizocarpic acid is a member of the pulvinic acid family, with a tetronic acid core bound to the methyl ester of L-phenylalanine. Rhizocarpic acid has weak activity against *Bacillus subtilis*, and moderate but selective activity against the murine myeloma cell line NS-1. The biosynthesis of rhizocarpic acid is induced by UV-B radiation, representing a chemical adaptation in high altitude lichen habitats.

References

1. Frank R. L. et al. (1950). The structures and syntheses of rhizocarpic acid and epanorin. *J. Am. Chem. Soc.*, 72, 4454.
2. James P.J.C. et al. (2023). Synthesis, characterization, and bioactivity of the lichen pigments pulvinamide, rhizocarpic Acid, and epanorin and congeners. *J Nat. Prod.*, 86, 550.
3. Rubio C. et al. (2002). Effects of solar UV-B radiation in the accumulation of rhizocarpic acid in a lichen species from alpine zones of Chile. *Boletín de la Sociedad Chilena de Química*, 47, 67.

For in vitro laboratory use only. Not for human or animal use.