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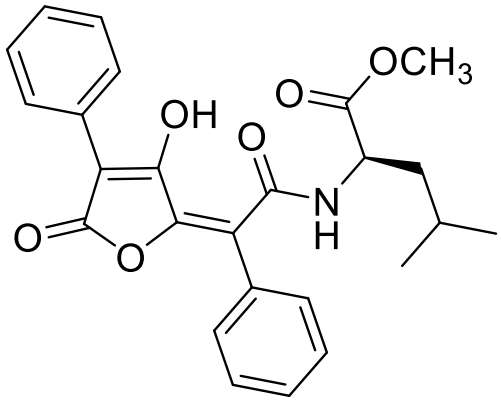
PRODUCT DATA SHEET

ent-Epanorin

Code No.: **BIA-E3089**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : D-Epanorin, (+)-Epanorin

Specifications

CAS #	:	**-**
Molecular Formula	:	**$C_{25}H_{25}NO_6$**
Molecular Weight	:	**435.5**
Source	:	**Semi-synthetic**
Appearance	:	**Yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol and DMSO.**

Application Notes

ent-Epanorin is the D-isomer of the naturally occurring L-form of epanorin. Epanorin is a member of the pulvinic acid family, with a tetronic acid core bound to the amino acid, L-leucine. *ent*-Epanorin is synthesised by reacting D-leucine methyl ester with pulvinic acid lactone. *ent*-Epanorin is moderately to weakly active against Gram positive organisms, B. subtilis and S. aureus, being more potent than epanorin. *ent*-Epanorin is more active than epanorin against G. duodenalis, but less active against murine myeloma NS-1.

References

1. Frank R.L. et al. (1950). The structures and syntheses of rhizocarpic acid and epanorin. J. Am. Chem. Soc., 72, 4454.
2. Palacios-Moreno J. et al. (2019). Epanorin, a lichen secondary metabolite, inhibits proliferation of MCF-7 breast cancer cells. Biol Res., 52, 55.
3. 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.

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