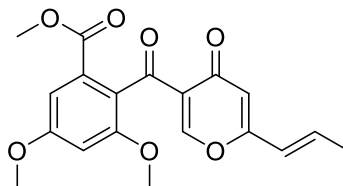


Deoxyfunicone

Code No.: **BIA-D2869**

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



Synonyms :

Specifications

CAS #	: 137461-36-0
Molecular Formula	: C₁₉H₁₈O₇
Molecular Weight	: 358.3
Source	: <i>Penicillium</i> sp.
Appearance	: Tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Deoxyfunicone is a γ -pyrone metabolite produced by *Penicillium* sp.. Deoxyfunicone stimulates radicle growth of Chinese cabbage and lettuce seedlings at 10 – 50 μ g/mL. Deoxyfunicone has potent antifungal activity and significantly potentiates the effect of micofungin against *C. ablicans*. Deoxyfunicone inhibits production of nitric oxide (NO) in lipopolysaccharide (LPS)-stimulated BV2 microglial cells, with IC₅₀ 11 μ M. Deoxyfunicone inhibits the activity of PTP1B, with an IC₅₀ value of 24 μ M, by binding to the active site of the enzyme. Deoxyfunicone is reported to have antiviral activity.

References

1. Deoxyfunicone, a new γ -pyrone metabolite from a resorcyliide producing fungus (*Penicillium*). Sassa T. et al. Agric Biol Chem., 1991, 55, 2415.
2. Funicone-related compounds, potentiators of antifungal miconazole activity, produced by *Talaromyces flavus* FKI-0076. Arai M. et al. J Antibiot. 2002, 55, 172.
3. Anti-inflammatory and protein tyrosine phosphatase 1b inhibitory metabolites from the antarctic marine-derived fungal strain *Penicillium glabrum* SF-7123. Ha T.M. et al. Mar Drugs 2020, 18, 247.