

Product Data Sheet

Product Name: (-)-Zuonin A

Cat. No.: GC60393

Chemical Properties

Cas. No. 84709-25-1

SMILES C[C@H]1[C@@H](C)[C@@H](C2=CC=C(OCO3)C3=C2)O[C@@H]1C4=CC=C(OCO5)C5=C4

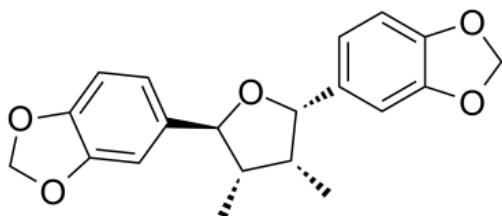
Formula $C_{20}H_{20}O_5$ M.Wt 340.37

Solubility Storage 4°C, protect from light

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

(-)-Zuonin A (D-Epigalbacin), a naturally occurring lignin, is a potent, selective JNKs inhibitor, with IC₅₀s of 1.7 μM, 2.9 μM and 1.74 μM for JNK1, JNK2 and JNK3, respectively[1].

(-)-zuonin A binds the D-recruitment site (DRS) of JNK, a recruitment site utilized by substrates and other substrates to dock onto and recognize MAPKs[1]. (-)-zuonin A inhibits JNK activation by MKK4 and MKK7 and it inhibits substrate phosphorylation[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Tamer S. Kaoud, et al. Manipulating JNK Signaling with (-)-zuonin A. ACS Chem Biol. 2012 Nov 16; 7(11): 1873-1883.

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