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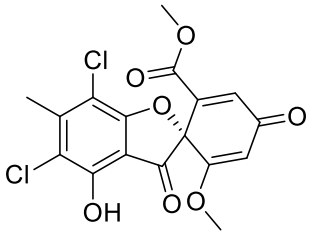
PRODUCT DATA SHEET

Geodin

Code No.: **BIA-G3148**

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



Synonyms : (+)-Geodin, d-Geodin, Estin

Specifications

CAS #	:	**427-63-4**
Molecular Formula	:	**$C_{17}H_{12}Cl_2O_7$**
Molecular Weight	:	**399.2**
Source	:	***Aspergillus* sp.**
Appearance	:	**Yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO.**

Application Notes

Geodin is an unusual chlorine-containing metabolite produced by Aspergillus terreus first reported by Raistrick and Smith, University of London, England in 1936. Geodin is active against Newcastle disease virus with MIC 9 µg/mL in a chick embryo fibroblast system. Geodin has moderate activity against Gram-positive bacteria and possesses weak insecticidal activity. Geodin inhibits α-glucosidase and enhances fibrinolysis via plasminogen activator inhibition.

References

1. Studies in the biochemistry of micro-organisms: The metabolic products of Aspergillus terreus Thom. Part II. Two new chlorine-containing mould metabolic products, geodin and erdin. Raistrick H. & Smith G. Biochem. J. 1936, 30, 1315.
2. Studies on antiviral and antitumor antibiotics. XII. Effect of geodin on virus multiplication. Takatsuki A. et al. Agr. Biol. Chem. 1969, 33, 1119.
3. Design, semisynthesis, insecticidal and antibacterial activities of a series of marine-derived geodin derivatives and their preliminary structure-activity relationships. Chao R. et al. Mar. Drugs 2022, 18, 82.
4. Identification and preliminary SAR studies of (+)-geodin as a glucose uptake stimulator for rat adipocytes. Sato S. et al. J. Antibiot. 2005, 58, 583.

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

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