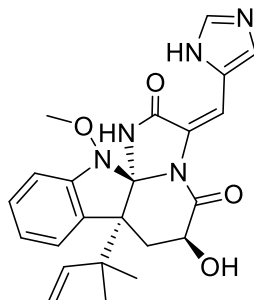


Neoxaline

Code No.: **BIA-N2447**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : Neoxaline

Specifications

CAS #	: 909900-78-3
Molecular Formula	: C ₂₃ H ₂₅ N ₅ O ₄
Molecular Weight	: 435.48
Source	: <i>Aspergillus japonicus</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Neoxaline is a fungal alkaloid isolated from *Aspergillus japonicus* by Omura and colleagues at the Kitasato Institute, Japan, in 1979. Neoxaline was found to weakly stimulate the central nervous system of mice after oral administration (100mg/kg) and had no antibacterial or antifungal activity. Neoxaline inhibits cell proliferation and induces cell cycle arrest at the G(2)/M phase in Jurkat cells. Neoxaline is closely related to meleagrins.

References

1. Neoxaline, a new alkaloid produced by *Aspergillus japonicus*. Production, isolation and properties. Hirano A. et al. J Antibiot. 1979, 781.
2. Oxaline, a fungal alkaloid, arrests the cell cycle in M phase by inhibition of tubulin polymerization. Koizumi Y. et al. Biochim Biophys Acta 2004, 1693, 47.